RL3/3e & RL4/4e

User Guide





right by our customers.

Important Safety Instructions

This printer has been carefully designed to provide many years of safe, reliable performance. As with all types of electrical equipment, however, there are a few basic precautions you should take to avoid hurting yourself or damaging the equipment:

- Carefully read the provided installation and operating instructions
- Read and follow all warning instruction labels on the printer
- Place the printer on a flat, firm, solid surface
- Make sure all openings on the printer remain unblocked; never insert anything into the openings or ventilation slots
- Do not place the printer near a heat source
- Do not use your printer near water or spill liquid into it
- Be certain that your power source matches a listed voltage rating for the printer (if unsure, check with your dealer or local utility company)
- Do not place the power cord where it can be stepped on and, if the power cord becomes damaged, immediately replace it
- If service is required, use only qualified trained technicians to repair your printer

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1.1 Introduction

Congratulations on your RL3e/RL4e printer purchase. The RL Series printer family, hereafter referred to as "the printer," blends the rugged durability with state-of-the-art electronics and user-friendly features to redefine the standard in portable thermal printers. The printer's RS-232 serial, USB, or optional wireless LAN or Bluetooth[®] wireless technology allows easy interfacing to any host system.

This manual provides all the information necessary to operate the printer.

To print labels or receipts, simply refer to the instructions included with the software you have chosen to use to create the labels.



1.2 Unpacking

After removing the printer from the packaging material, check the contents. The following items should be included:

- Printer
- Belt Clip
- Documentation

Additional Requirements:

In order to print from your RL Series printer, the following items are required.

- Power Supply (sold separately) The appropriate power supply for your region is required and is not included as part of the printer purchase. If you do not have an applicable power supply for your printer, you will need to order one before getting started.
- **NETira[™] CT Configuration Software**, version 1.0.0 or greater.
- Connection Cable If the printer you are setting up does not have a Bluetooth[®] wireless connection feature, or if you are seeking to connect your printer over a wired connection, you will need a cable. Available options: Serial Cable Coiled (Part No. 210191-101); Serial Cable Straight (Part No. 210191-101); or USB (Part No. 210304-100).
- Print Media Datamax-O'Neil offers a full line of applicable printing labels, receipt media and supplies. It is recommended that Datamax-O'Neil-approved media be used to ensure the quality of your printing and maintain the integrity of your warranty.

NOTE: This manual contains instructions and information regarding RL Series printers with various options. Not all features listed in this guide may be applicable to your RL Series printer model.



It is a good idea to save all packaging materials in the event that shipping the printer is ever required.

1.3 Carry Accessories

Several accessories are available for the printer to allow for ease of use and portability.

Belt Clip

Included with printer, the Belt Clip allows easy attachment to a belt or similar object.



Shoulder Strap/Hand Strap (Optional Items)

Choose either a hand or longer shoulder strap for maximum comfort and flexibility. Each strap incorporates heavy-duty clasps for an easy and secure attachment; however, these are not OSHA-approved safety straps.

Both the hand strap and shoulder strap have a limited breakaway strength. If the strap is caught or wrapped and pulled beyond normal use the strap will come off the Attachment Points. Do not use the straps for mounting, hanging or as the means for a permanent installation of the printer. If the latch appears damaged (white stress marks in plastic) discontinue use and replace.

Orient and connect the clip(s) to the Attachment Points shown.



Belt Loop (Optional Available Accessory)

The Velcro[®] loop fastens comfortably and securely around the belt and keeps the printer secure, yet swivels for comfort when the user is bending over or getting in and out of vehicles.



IP54 Soft Case (Optional Available Accessory)

Proper use of this case will allow the printer to be used in harsh, dusty or rainy environments. This case is certified to an IP54 rating, so when properly used, it will protect your product against particles as small as dust, and water from any direction. This case can be used in conjunction with the hand/shoulder straps, as well the belt-loop and belt-clip accessories.

The IP54 case has been tested at an accredited lab for use in dusty and heavy water environments. However, it is not designed for extensive prolonged use in the rain. During normal operation, water could enter into the case during media changing. This ingress of moisture should be avoided at all costs. The printer warranty cannot be honored for excessive water inside the printer even if an IP54 case is used.



- 1. Open the case at the two (2) side zippers.
- 2. Slide the printer into the case.
- 3. Close the case using the two (2) side zippers and Velcro[®] closure.
- 4. Fold back the paper exit flap for each print job. The paper exit flap can also be rolled up out of the way and secured using the Velcro[®] strip; doing so decreases the effectiveness of the case for water protection.



Never attempt to charge when the printer case or printer is wet as a short circuit could occur. Remove the printer from the case, allow to completely dry and then charge. In the event water is believed to have entered the printer, remove the battery and allow the unit to dry for several days before installing the battery or charging.



2.1 Charging Your Battery

Your printer utilizes an external auto-ranging power supply to charge its battery. Before using your printer, the battery should be fully charged. The printer cannot be operated through AC power alone and requires the battery to be installed. Ensure that the operating ranges of the power supply are compatible with your electrical service (see **Appendix A**) then follow these instructions:



The maximum operating temperature of the printer is 50°C (122°F). However, the maximum operating temperature for charging when used with a Datamax-O'Neil power supply is limited to 40°C (104°F). Please charge the printer in a suitable location that meets this temperature requirement.

There is a risk of explosion if the battery is replaced by an incorrect type. Dispose of used batteries properly.

1) Remove the Battery from the printer. Then remove the red Battery Isolator.



2) Re-install the Battery into the printer. Align the release tab with the same side as the charge contacts and lock the battery into position. The latch should click into place when seated properly.

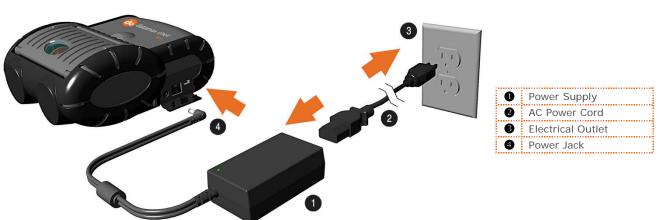


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- 3) Connect the Power Supply to Power Jack of the printer.
- 4) Connect the AC Power Cord to the Power Supply.
- 5) Connect the AC Power Cord to an Electrical Outlet.



Do not operate the printer while it is connected to the AC Power Supply.



Battery Guidelines:

- DO NOT store batteries in cold or hot conditions
- DO NOT drop the battery pack. In the event of a drop carefully inspect the battery plastic and contacts for damage. If you suspect damage, do not use the battery.
- DO NOT use sharp tools to remove the pack. If a pack is punctured or cracked, immediately remove from the printer.
- If the pack becomes extremely hot, or begins to smell, DO NOT touch. Place immediately in an empty metal trash can.
- DO NOT use the battery for any product other than the RL3e/RL4e or designated printer
- DO NOT tamper with or attempt to disassemble the battery pack
- DO NOT subject the battery pack to water or liquids of any kind
- Be careful when setting the battery pack down on a flat surface; always store the battery pack with the contacts facing up
- DO NOT stack batteries with the contacts facing each other
- Replacement batteries come in individual boxes, store this way
- Batteries have a shelf life of one (1) year

The printer is also designed with externalcharging capabilities (optional) using Datamax-O'Neil-approved charging accessories.



2.2 Interface Connections

Connecting your printer to a host device can be set up using various connection options that are available for your printer. If your RL model has the available feature, you can connect via Serial, USB, Wireless 802.11 LAN or Wireless via Bluetooth[®]. The printer will automatically connect to the first available port that provides valid data. If you wish to change that connection once established, you will need to power the printer off and back on again. Choose from the options below for instructions on using the various options for establishing a connection to your host device. Once established, you can proceed to Section 3.3 for information on using the configuration software (NETira[™] CT). Wired connections using USB or serial options require the appropriate cables for use. See Section 1.3 for a list of available cables.



Before connecting Power or interface cables to the printer, be sure the printer is powered off. For hardware setup instructions, see Section 3.3 – Establishing Printer Connection. Once hardware connection has been established, go to the corresponding Appendix listed below for instructions on setting up the printer using Netira[™] CT.

Serial Connection

The serial interface supports RS-232 communications via an RJ-11 connector. The following list of serialport settings is menu-selectable (via host software/driver) and must match the host computer's serial-port settings:

- > Baud Rate (Default 9600 bps)
- > Parity = (Default N)
- > Word Length = (Default 8 bits)
- > Stop Bits = (Default 1)

USB Connection (USB)

The USB Interface is supported in Windows[®] 98 and greater. Depending upon the operating system of your host computer, installation may differ slightly. For setup information, see <u>Appendix D</u>.

Optional Wireless LAN and Bluetooth®

For setup information on optional Wireless LAN and Bluetooth[®] connections, see **Appendix C**.

2.3 Loading Media (Labels or Paper)

Load media into the printer as follows:

1) Slide the Thumb Latch rearward and then lift up on the printer's Cover.





2) Slide and hold open the Supply Hubs.





3) Orient the Roll of Media (paper or labels) as shown and insert it into the printer.



4) Allow the Supply Hubs to retract onto the Roll of Media. Then close the printer's Cover and press downward until latched.



5) Press the **o** button two or three times to normalize tracking. The printer should advance the media to the start of the next label for each press.

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2.3.1 Loading for Presenter Mode



The printer must be configured for use in "Presenter Mode." See Section 3.6 for connecting and configuring the printer's settings.

- 1) Load media as described in Section 2.3 (steps 1-3).
- 2) Remove about eight (8) inches (203 mm) of labels from the Media Backing.
- 3) Open the Peeler Door. Route the media as shown below.



- 4) Pull the media backing tight and then close the Peeler Door.
- 5) Press the **o** button two or three times to normalize tracking. The printer should advance the media to the start of the next label for each press.



With some types of media, it may be necessary to periodically remove slack in the backing (liner) material that accumulates before the Peeler Door. To remove: Hold the Peeler Door closed and pull on the backing material until the slack is removed and is tight.



When using the printer in presenter mode a large amount of backing can accumulate. Be sure to contain the backing as it can become a tripping hazard. When removing backing material from the printer do not pull the backing as it may disturb the printer. Cut using scissors or tear using two hands a few feet from the printer.

2.3.2 External Media Loading

Load media into the printer as follows:

1) Slide the Thumb Latch rearward and then lift up on the printer's Cover.



2) Open the External Media Door located in the bottom of the printer.



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3) Slide and hold open the Supply Hubs and install the Media Spacer.



4) Insert the Media through the External Media Door and through the printer as shown:



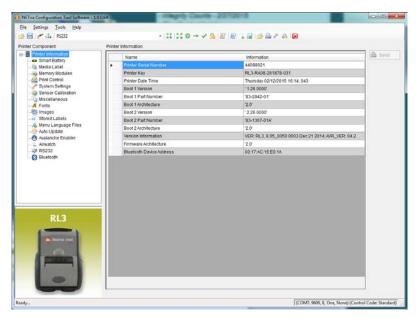
- 5) Close the printer's Cover and press downward until latched.
- 6) Press the **o** button a couple of times to normalize tracking. The printer should advance the media to the start of the next label for each press.

2.3 Real-Time Clock (RTC)

The Real-Time Clock is powered from a rechargeable coin cell. Once the RTC is set, and as long as the main battery is in place and has a reasonable charge, the RTC will continue to keep time. If the main battery is pulled, you have 2+ days or the time will be lost and will need to be reset once power is restored.

Viewing the RTC Setting:

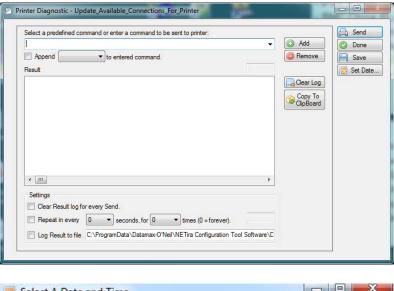
- 1) Click on "Printer Information."
- View the current RTC date and time stamp in "Printer Date Time" section.

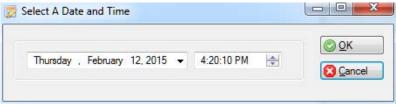


Resetting the RTC:

- 1) Click on "Printer Diagnostics."
- 2) Click on "Set Date."

 Set the "Date" and "Time" and click on "OK."







3.1 Front Panel

The Front Panel is an event-driven interface composed of a graphic display and four (4) buttons. In addition to providing current printer information, the mode-dependent panel allows the items in the main display area and the button functions to change as operational events require.



The RL Series printer displays will enter sleep mode after one (1) minute of inactivity; press any button to wake.

RL Series printers will turn off after 120 minutes of inactivity. This "shutdown" period can be adjusted or disabled using the NETira[™] CT configuration program (Ver. 35 or greater) and by modifying the System Settings/System Power Down setting. See Section 3.3 for more information on NETira[™] CT. When the printer is charging it will not "auto shutoff."

3.1.1 LCD Icons

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Icon	Function
90%	Battery Charge Level. The number of bars and the % will change according to remaining battery charge. During charging, the battery level is continuously progressing to show charging, unless at 100%
Tail	Wireless LAN Signal Strength.
ሙ	The DC power supply is connected and the battery is charging.
IP: 192.168.0.1	IP address currently assigned to the printer (if equipped). If an IP is not assigned, it will display as 0.0.0.0. Bluetooth [®] models will display the MAC address.

3.1.2 Audible Alerts

Alert	Event
One (1) beep	AC power supply disconnected
Two (2) beeps	AC power supply connected
Five (5) beeps	Opened printer cover or Paper-out condition
Constant beep (10 seconds in duration)	Failed download (via RS-232)
Short interval beep (for length of download)	Downloading data (via Wireless LAN)

3.1.3 Buttons

Ready Mode

Button	Function	
(1)	Short Press: Wakes the printer from sleep or off mode. Short Press: Puts the printer into sleep mode.	
	Press and hold (~4 seconds) then release: Turns off the printer. Press and hold (~10 seconds): Resets the printer.	
6	Short Press: Feeds one label or a preset paper length Press and hold for four (4) and seven (7) seconds and then release: Prints the Configuration Label Press and hold until printing starts [approximately eight (8) seconds]: Prints the Configuration Label with additional information.	
iii	Enters the printer's menu system.	
(1) (1)	Long Press (~4 seconds): Toggles the Wireless LAN/Bluetooth $^{\ensuremath{^{\otimes}}}$ radio on and off	

Menu Mode

Button	Menu Icon	Function	
Ċ	•	eturns to the previous menu level, at the top level it will exit the menu system.	
6	▼	rolls downward to the next available menu item or menu branch.	
≣	đ	Exits the menu system and returns to "Ready Mode."	
(†))	ОК	Selects the current highlighted item or menu branch.	

3.1.4 Menu

Pressing the button allows entry into the printer's menu system. The menu system is informational only; configuration changes to the printer cannot be made via the menu. The menu consists of three branches; default values are show next to each item.

Serial

Baud Rate	9600 BPS	
Data Bits	8	
Parity	None	
Stop Bits	1	
Protocol	Hardware	

	Manu Window	
	Serial Configuration	
	MAC Address	
	Calibrate Media	
V	and the second second second second	T OK

MAC Address xx:xx:xx:xx:xx:xx (varies for each printer; standard 6-octets of hexadecimal digits)

Calibrate Media The printer is factory-calibrated and should not need further calibration. However, certain types of aftermarket paper/media will need to be calibrated. Depending on the media type being used, this function senses the gaps between labels or the black mark on the back of the media. Once the printer senses these locations, it can accurately position the media for printing at the start of each label.

Once selected, the printer will feed media, pause $\sim\!20$ seconds and then complete the calibration.

3.2 Configuration Label

Initiation of this mode causes the printer to print its Configuration Label. The Configuration Label provides valuable printer information, including the firmware version, memory allocations, enabled options, communications settings and label-counter data.

To print the Configuration Label:

- 1) Be sure the printer is properly loaded with media [at least four (4) inches wide] and that the power to the printer is off.
- 2) Turn on the printer and allow it to reach a ready state.
- 3) Press and hold the **6** button for four (4) to seven (7) seconds and then release. The printer will now print the current configuration of the printer.

3.3 Establishing Printer Connection

A printer connection to your host PC must be established before proceeding to set up the parameters of the printer. The connection is established through various options included with the model you are using. Below provides the setup based on your preference for connection type. Once connected, proceed to **Section 3.4 - NETira™ CT Printer Configuration Utility** for adjusting the settings and parameters of the printer, as needed.

Serial Connection Setup

To set up, an RJ11 to Serial interface cable is required (optional).

Connect the RJ11 connector to the RL printer. The port is located on the side of the printer and designated with COM printed on the port cover. Connector should click in place once secured.

Connect the serial-connector portion of the cable to your host computer's serial port.

The printer will automatically be assigned to COM 1 location.

USB Connection Setup

To connect the printer via USB connection, an Internet connection may be required. You may also need administrative access rights to your host computer for completing this installation. If you do not, you will need to log off and log in under a profile that has such rights for your host computer.

To connect your printer to the host computer, a Standard Mini B to Standard USB A Printer Cable is required (Optional: P/N: 210304-100).

To set up a USB connection on Windows[®] OS 7.0 or later device:

- Power up your printer once the cable connection is made. The Mini B connector is used for connection to the printer. Connect to the port with the USB-symbol port cover.
- Connect the standard USB connector to an available USB port on the host Windows[®] PC.
- Your host computer should recognize the printer and begin "Adding Device Driver."



- If the setup operation does not start, locate the Devices and Printers section of the Control Panel and select "Add a Printer."
- Once initiated, select the printer model under Datamax-O'Neil Printers. If the model is not located, follow the steps "Locate Driver thru Windows Update" and follow the instructions to complete the installation.
- Once completed, you should see the RL Printer as an available printer from your host PC.
- The default setting will set up as a CDC Composite printer type.

Bluetooth[®] Connection Setup

Power on the printer and confirm that the wireless radio is on. The Radio icon should appear on the LCD screen of the printer. If it does not and "Radio OFF" is displayed, press the Radio button on your printer (insert Radio icon symbol) for five (5) seconds until "Turning on Radio" appears.

Next, follow your Host PC or device instructions for adding a new Bluetooth[®] device.

You should not see the printer as an available printer from your Host PC. Once connected and the connection is established, proceed to Section 3.4 - NETIra[™] CT Printer Configuration Utility.

Wi-Fi – Wireless LAN

Before connection to the printer using Wi-Fi can be established, the printer must first be connected by using one of the options listed above. Once the connection is established, proceed to **Section 3.4 - NETIra[™] CT Printer Configuration Utility** for Wireless LAN connections and use the configuration tool to complete the setup. For advanced setup details, see **Appendix C – Wireless LAN and Bluetooth[®] Setup**.

3.4 NETira[™] CT Printer Configuration Utility

The NETira[™] CT Printer Configuration Utility is a Windows[®]-based configuration utility that allows the user to make changes to the existing printer setup via a serial, USB or Wireless LAN connection.

NOTE: Information shown for NETira^M CT reflects what is available on the current version of software (v. 1.0.0.64). If you are using a version that is not the most current, some features or options may not be available as shown.

Utility Features:

- Allows Real-Time Control/Query of Printer Configuration
- Define and Save Optimal Configurations for Applications
- Saved Configurations can be Shared with other Printers and Sent via Email
- Download Files, Formats and Fonts
- Query Memory Modules

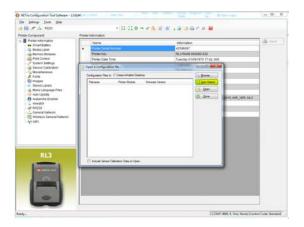


The NETira[™] CT Printer Configuration Utility is designed to communicate to the printer using the DPL (or Auto) printer-language setting. This is the default setting for your printer when used for the first time. If the printer has been set to any other input mode, the printer must be reset back to Auto or DPL. To restore to your computer, use Tools>Set Input Mode function within NETira[™] CT.

- 1) Once you have downloaded the software, follow the instructions as prompted to install it on your PC. Once installed, launch the NETira[™] CT Printer Configuration Utility.
- 2) Ensure the battery is installed and the printer is "ON." Connect the host to the printer (see <u>Section 2.2 -</u> Interface Connections).

For Serial and Bluetooth[®] Connections:

 a) Query the printer by using the "Auto-Detect" button. This will connect to the printer and retrieve the setting currently stored in the printer.



b) If the Auto-Detect is unsuccessful, close the "Open a configuration file..." dialogue box and go to the Settings dropdown menu and choose the RS-232 menu option. On this screen you can manually select the port and its parameters.

c) Once complete, click "OK" and then click the "Query Printer" button on toolbar. This will connect to the printer and retrieve the setting currently stored in the printer.

	[]	
BaudRate:	9600	*
Data Bits:	8	~
Parity:	None	~
Stop bits:	One	~
Handshake:	None	~
Read Timeout	1000	~
Read Buffer:	16384	~
Write Timeout:	4000	~
Write Buffer:	32768	~
Default	OK Cano	:el

✓ RS232 Configuration → Rate COM2

NETira Configuration Tool	
Eile Settings Tools Help	
: 🔂 🗎 🛲 R5232	- 🔣 53 🗢 27 12 13 28 14 24 44 100 -

For Wireless LAN Connections:

Close the "Open a configuration file..." dialogue box.

- a) In the toolbar, Click on the "TCP/IP Configuration" Icon 👼.
- b) In the "TCP/IP Configuration" dialogue box enter the IP address of the printer and click "OK." (The IP address should be displayed on the home screen of the printer's LCD).

c) In the toolbar, from the dropdown menu box, select "TCP_IP." Then click on the Query Printer Icon

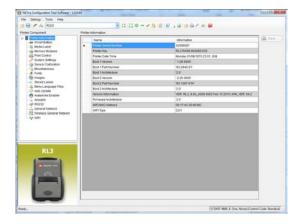
 At this point you may browse the Printer Component categories and make any changes necessary to the printer configuration.

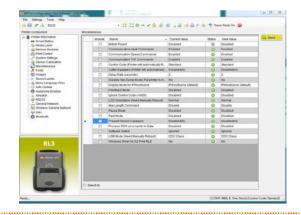
- 4) Once your changes are complete, send the new settings to the printer using the "Send" button.
 - **NOTE**: When using the "Send" button, only the changes displayed on the current page will be sent.

The "Set current setting to printer" button will send all changes made to all pages.



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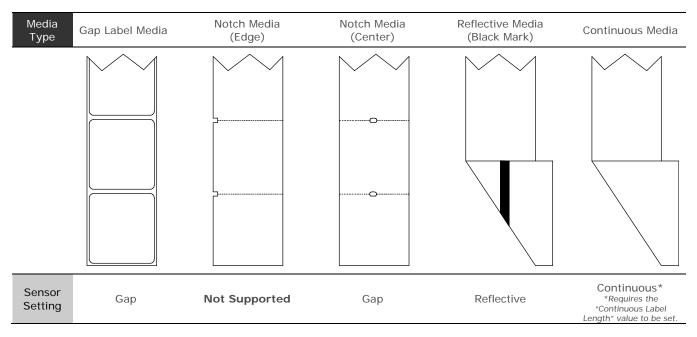




3.5 Media and Calibration

3.5.1 Selecting Media Type

To accommodate a variety of media types, the printer is equipped with two (2) sensors. A transmissive sensor (for gap and notch-type label media) and a reflective sensor (for "black mark"-type label media). Several media types and their proper sensor settings are shown below:



Most applications that use label media will use the default setting of "Gap." However, if "black mark" or continuous media is being used, this setting must be changed.

The Sensor Type setting can be changed using the NETira[™] CT Printer Configuration Utility.

Launch the NETira[™] CT Printer Configuration Utility and query (connect) to the printer.

are - 1.0 Ele Settings Iools Help 1) Click on the "Media Label ient Settings" printer component. Send Status New Value Smart Battery Include Name - Current Value Oisabled Oisabled Backup After Print Disabled Continuous Label Length (1/100 inch, ma. Gap Atternate Mode 400
 Disabled Disabled Head Cleaning Threshold (0 - 200 thousa... 0 Label Width (1/100 inch or 1/10 mm) 283 O 0 O 283 Label Vider (1150 wind or 110 mm) 283 Lindt Label Length (1150 efform Prec. Disabled Maximum Label Length (1100 efform Prec. Disabled Paper Ength Distance (1100 inch, max. 9 Present Bisclup Enabled Present Distance (1100 inch, max. 99 99) 0 (Add) Research 2010 inch, max. 99 99 0 (Add) 0 0 1015 25
 Enabled
 0 (Auto)
 7405nul 2) To change the different Sensor Type Stop Location parameters, select from the Continu Host pull-down values or key in a value. (COM7: 9600, 8, One, None)-(Control Code: Standard)

Common Settings:

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	Name	Value	New value
1	Continuous Label Length (1/100 inch)	425	Distance the printer will advance after pressing the FEED button. Distance is measured in 1/100 inch, i.e. 1000=10 inches.
2	Label Width (1/100 inch)	425	200 = 2-inch media 300 = 3-inch media 400 = 4-inch media
3	Maximum Label Length (1/100 inch)	800	Distance must be greater than the length of your media, i.e. 1000=10 inches
4	Sensor Type	Continuous	Gap = Labels with gap Continuous = Media with no gaps Reflective = Labels with Q-Mark or black mark

 After updating the "New Value" columns, click the "Send" button to send these changes to the printer.

Include	Name 🔺	Current Value	Status	New Value
	Auto Align (Align label to top of form when	Disabled	۲	Disabled
	Backup After Print	Disabled	۲	Disabled
	Continuous Label Length (1/100 inch, max	600	۲	600
	Gap Alternate Mode	Disabled	0	Disabled
	Head Cleaning Threshold (0 - 200 thousa	0	۲	0
	Label Width (1/100 inch or 1/10 mm)	283	۲	283
	Limit to Label Length (or Top of Form Prec	Disabled	۲	Disabled
	Maximum Label Length (1/100 inch, max. 9	317	٢	317
	Paper Empty Distance (1/100 inch, max. 9	0	۲	0
	Present Backup	Disabled	۲	Disabled
	Present Distance (1/100 inch, max. 99.99 i	24	۲	24
	Sensor Type	Continuous	۲	Continuous
	Stop Location	TEAR		TEAR

NOTE: NETiraTM CT will change its column status from a green O to an orange triangle \triangleq when values are modified and do not match current printer values. Query the printer settings and if the orange triangle \triangleq is still present, try sending the "New Value" again.

3.5.2 Quick Media Calibration

The printer is factory-calibrated for operation with most media types (both gap and "black mark"). Try your media without performing any calibration adjustments first; this will determine if the factory settings are compatible. Only perform the calibration adjustments if you are experiencing media-registration issues.

The Quick Media Calibration should be performed first, if it fails to detect your label media proceed to the Manual Media Calibration procedure, see Section 3.5.3.

The Quick Media Calibration can be performed using the NETira[™] CT Printer Configuration Utility, (see Section 3.4 for more information on NETira[™] CT) or the front-panel menu (see Section 3.1).



Launch the NETira[™] CT Printer Configuration Utility and query (connect) to the printer.

- 1) Click on the "Sensor Calibration" printer component.
- Install your media in the printer and click the "Quick Media" button.
- The printer will feed media while the sensor is being calibrated. At the end of the process, the following message will be shown, indicating a successful calibration. Values displayed in the "New Value" column may change after a calibration.

If the calibration is not successful, repeat the procedure. If the Quick Media calibration continues to fail, proceed to **Section 3.5.3** -**Manual Media Calibration**.





3.5.3 Manual Media Calibration

Manual Media Calibration is intended for use when Quick Media Calibration printer has failed to detect the start of each label. This procedure performs a complete recalibration of the sensors and will optimize the printer to your media. In some instances, you may need to perform a Quick Media Calibration after the Manual Media Calibration to further optimize the printer's sensor.



When updating the printer's Firmware the sensor settings can be saved to a configuration file (see Section 3.8) that will eliminate the need to recalibrate the printer.

Sensor calibration is needed to set either the black mark or the gap value of the media sensor on the printer. The Manual Media Calibration can be performed using the NETira^m CT Printer Configuration Utility (see Section 3.4 for more information on NETira^m CT).

It is recommended that the battery is charged to 50% or greater before starting media calibration.

Launch the NETira[™] CT Printer Configuration Utility and query (connect) to the printer.

Procedure for Gap-Type Media: (be sure the printer is set to sense Gap media, see Section 3.4.1).

- Click on the "Sensor Calibration" printer component.
- Click the "Manual Media" button to start the manualcalibration process.

Follow the instructions on the following screen.

- Select the "Interlabel/Gap" radio button then click "OK."
- Load Stock: Place the face of media over the sensor, close the door, then click "OK."
- 5) Load Special Backing Media for Gap: Peel the label(s) off backing and place the backing over the sensor, close the door and then click "OK."
- Remove Stock: Remove all media from printer, close the door and then click "OK."

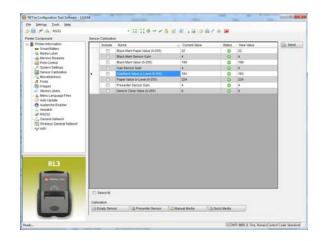


 NETira[™] CT will display a message indicating the process has finished.

In case of any error, a "FAILED CALIBRATION" message will be displayed. Repeat the process.

8) To confirm changes, observe that Gap Back Value and Gap Paper Value have changed.





Procedure for Black Mark Media: (be sure the printer is set to sense Black Mark media, see Section 3.4.1).

- 1) Click on the "Sensor Calibration" printer component.
- Click the "Manual Media" button to start the manualcalibration process.

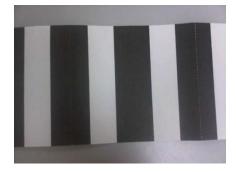
Follow the instructions on the following screen.

3) Select the Reflective radio button, then click "OK."





NOTE: A special media with black marks is needed to perform this calibration. See the image to the right. A sample image is included at the end of this document, it can be printed and used for this calibration procedure.



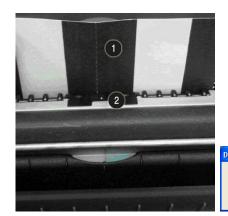
 Load Stock: Place a white section of media under the sensor, close the door and then click "OK."





 Load Special Q-Mark Media for Reflective Media: Place a black section of the media under the sensor, close the door and then click "OK."

0	Q-Mark Area
	Sensor





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NETira-Configuration Tool 🛛

OK Cancel

LOAD STOCK ENTER TO CONTINUE

6) Remove Stock: Remove all media from printer, close the door, then click "OK."



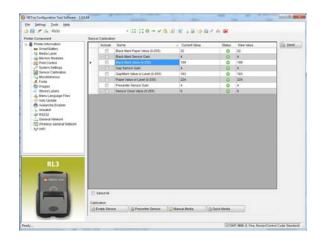
 NETira[™] CT will display a message indicating that the process has finished.

In case of any error, a "FAILED CALIBRATION" message will be displayed. Repeat the process.

 To confirm changes, observe that the Black Mark values have changed.

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3.6 Presenter Mode

To set the printer to work in Presenter Mode, follow these steps:

- Set the "Presenter Sensor Equipped" parameter to enable the presenter sensor.
- Calibrate the Presenter Sensor to store the media settings (liner and media).

These setting changes can be performed using the NETira^m CT Printer Configuration Utility (see Section 3.4 for more information on NETira^m CT).

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Launch the NETira[™] CT Printer Configuration Utility and query (connect) to the printer.

Enable the Presenter Sensor:

- 1) Click on the "Miscellaneous" printer component.
- 2) Set the "Present Sensor Equipped" to Enabled.

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 After updating the "New Value" column, click the "Send" button to send this change to the printer.

Printer Component	Miscell	aneous				
B Printer Information Smart Battery		Include	Name	Current Value	Status	New Value
Media Label		10	British Pound	Disabled	0	Disabled
Memory Modules			Communication Heat Commands	Enabled	0	Enabled
- A Print Control		10	Communication Speed Commands	Enabled	0	Enabled
- System Settings - Sensor Calibration			Communication TOF Commands	Enabled	0	Enabled
Miscellaneous		15	Control Code (Printer will automatically Re.	Standard	0	Standard
-A Fonts			Cutter Equipped (Printer will automatically	Disabled(N)	0	Disabled(N)
- El Images		123	Delay Rate (seconds)	0	0	0
		E	Disable Hex Dump Mode(Put printer in He	No	0	No
- A Menu Language Files		0	Display Mode for IP/Hostname	IP/Hostname (default)	0	IP/Hostname (default)
Avalanche Enabler		13	Feedback Mode	Disabled	0	Disabled
- 🔛 Airwatch		10	Ignore Control Code (<0x20)	Disabled	0	Disabled
-40 R\$232			LCD Orientation (Need Manually Reboot)	Normal	0	Normal
Bluefooth		10	Max Length Command	Disable	0	Disable
			Pause Mode	Disabled	0	Disabled
		13	Peel Mode	Disabled	0	Disabled
	1	1	Present Sensor Equipped	Disabled(N)	0	Enabled -
		13	Software Switch	Ignored	0	Ignored
			USB Mode (Need Manually Rebool)	Composite (CDC/Printer	0	Composite (CDC/Printe
		8	Windows Driver for EZ-Print RLE	No	0	No
RL3		lect All				

Calibrate the Presenter Sensor:

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After calibration is complete, the presenter sensor will be disabled. You must re-enable the presenter before use.

1) Install the media in the printer and route the liner through the peeler door, see Section 2.3.1.

When the "FEED" key is pressed, the label will be peeled and presented for the operator.

- Click on the "Sensor Calibration" printer component.
- Click the "Presenter Sensor" button to start the calibration process.

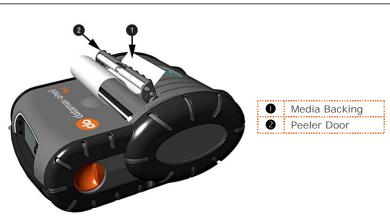
Follow the instructions on the following screen.

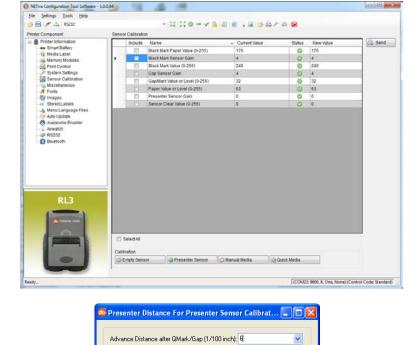
 Type the number 6 as the Advance Distance after QMark/Gap. Click the "OK" button.

> This value may vary if Datamax-O'Neil media is not used and may require adjustments to the Advance Distance after QMark/Gap parameter for the sensor to work properly.

5) The following screen will be shown. Click the "OK" button to start the process.

After the calibration is performed successfully, the following confirmation screen will be shown. If the sensor calibration fails, repeat the process.





			Lanc	ei	.::
NETira-	Configuration Too	əl			×
٩		into feeder leav o continue or o abort the test OK		l about 1 inch p	ast the tear bar.
	Presento	<mark>er Sensor</mark> Passed Prese	enter Sensor C	X	
		0	ĸ		

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NOTE: To test the proper operation of the printer, press the "Feed" button. The label is separated from the liner and a message "REMOVE LABEL" is shown in the LCD. After the label is removed, the printer will print the next label.

3.7 Printer Input Mode (Emulation)

The printer supports several printer languages, such as CPCL, ZPL, DPL, etc. However, the printer has an AUTO input mode that will detect the type of script and switch to the desired printing language. By default, the printer is configured as an AUTO mode. To manually change the printer language used, perform the following steps.

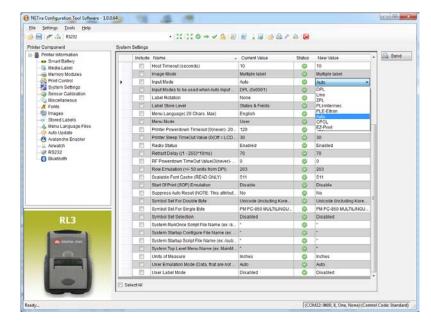
These setting changes can be performed using the NETira[™] CT Printer Configuration Utility, (see Section 3.4 for more information on NETira[™] CT).

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The NETira[™] CT Configuration Utility can only communicate to the printer using the DPL printerlanguage input mode. If the printer has been set to use an input mode other than DPL, the printer's input mode must be changed back to Auto or DPL. This can be performed using the Tools>Set Input Mode function within NETira[™] CT.

Launch the NETira[™] CT Printer Configuration Utility and query (connect) to the printer.

- Click on the "Systems Settings" printer component.
- Set the 'Input Mode' to the desired emulation under the "New Value" column.
- After updating the "New Value" column, click the "Send" button to send this change to the printer.



3.8 Saving & Loading Configuration Files

The NETira[™] CT Printer Configuration Utility allows printer configuration files to be saved to a file. These files can be useful for saving a printer configuration for a particular application or media. Saved configuration files can be shared with other printers/users.

Saving and Loading a Configuration file can be performed using the NETira^M CT Printer Configuration Utility (see Section 3.4 for more information on NETira^M CT).

Launch the NETira[™] CT Printer Configuration Utility and query (connect) to the printer.

To Save a Configuration File:

- Once the printer has been queried the current settings can now be saved to a file. You may also make changes to any of the settings and have these values saved, as well.
- To save the current configuration in a file, go to "File/Save As" menu and specify the filename.

The current settings will be saved in a file with extension ".cfg".

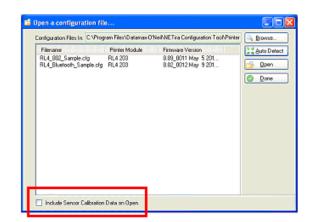


To Load a Configuration File:

 To open a saved configuration, go to the "File/Open" menu and choose the configuration filename.

Optional: Check "include Sensor Calibration Data on Open" box to import sensor data with the configuration. Sensor data is printer-specific and should only be imported to the printer that it came from.

 The configuration will now be loaded to NETira[™] CT.



3.9 Printer Demo

There are two (2) ways to send demo-label formats to the printer, NETira[™] CT and the standalone Printer Demo program available for download.

NETira[™] CT Printer Demo:

- Launch the NETira[™] CT Printer Configuration Utility, select "Tools," then "Printer Demo."
- Browse to folder containing print files, highlight files to be printed and click "Add>."
- 3) Click on "Print" to send the file(s) to the printer.

Printer Demo	
Select a folder for files to print: CVProgram Files/Optimum Of NeilPrinterDemo Available Files 27. Invoice print 41. Invoice print 41. Invoice print Add3. 4ips tai 8. VMP. R.P. Recept, Demo print Add3. 4ips tai VMP. Recept, Demo print APEX3. Recept, Demo print APEX4. Recept, Demo	ve
Enable shuffle printing. Print time/date stamp for each print job Repeat in every seconds, for Delay between each file printing.	v times (0 = forever). Counter: v miliseconds

Standalone Printer Demo:

- 1) Launch the Printer Demo utility.
- 2) Select the file to print from the dropdown menu.
- Select "Settings" to set the communication parameters for the communication type selected.
- 4) Click "Print Demo" to send the file to the printer.

💩 Printer Demo 📃 🗖 🔀
Perform Settings Help
RS232: CDM1: Select File To Print 4T_Invoice.prn Default Select Communication Type RS232
Print Demo
Exit

3.10 Firmware Update

When program updates and/or new features are added, they can be downloaded to the printer as follows:

- 1) Identify the new version for your model of printer from the Datamax-O'Neil website and download it onto your computer's hard drive. **NOTE:** RL3/RL3e and RL4/RL4e firmware files are not interchangeable.
- Launch the NETira[™] CT Printer Configuration Utility and query (connect) to the printer (see Section 3.4 for more information on NETira[™] CT). NOTE: To update your firmware, the NETira[™] Printer Configuration Utility program is required.

It is recommended that the configuration be saved before downloading Firmware and restored when finished. Be sure to check the box labeled "Include Sensor Calibration Data on Open" when restoring the configuration. See Section 3.8 for instructions.

- Go to the Tools>Upgrade>Firmware. Select the binary file (BIN file).
- 4) Click the "Send" button to start the firmware update.



Loading Boot 1 and Boot 2 and Firmware

Loading Boot Firmware requires a serial connection to the printer.

- 1) Connect the printer to your PC using a serial cable.
- Launch the NETira[™] CT Printer Configuration Utility and query (connect) to the printer (see Section 3.4 for more information on NETira[™] CT).



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It is recommended that the configuration be saved before downloading Firmware and restored when finished. Be sure to check the box labeled "Include Sensor Calibration Data on Open" when restoring the configuration. See Section 3.8 for instructions.

- 3) Go to the Tools>Upgrade>Firmware. Select the binary files (BIN files) for each of the Boot files.
- 4) Check the "Select and Download Boot 1 file:", "Select and Download Boot 2 file:" and "Erase System and/or User Area" boxes and click "Send" to initiate the download.



Always check the "Erase System and/or User Area" box unless otherwise instructed.

BOOT	1 Information	
🗹 S	elect and Download Boot 1 file:	🚖 Send
C:\D	ocuments and Settings\mweatherholt\My Documents\RL 💌 🔍 Browse	📀 Done
BOOT	2 Information	
🗹 S	elect and Download Boot 2 file:	
C:\D	ocuments and Settings\mweatherholt\My Documents\RL 🔽 🔍 Browse	
E	rase System and/or User Area (Warning: Use with CAUTIONI).	
	Erase System and User Area C Erase User Area Only	
Data	block size for each package transmission: 40960 👽 bytes	

5) Once the Boot Loader files have been loaded, the firmware version can be updated using the procedure outlined in Section 3.10.

4 Maintenance and Adjustments

4.1 Cleaning Intervals

This section details the cleaning, adjusting and troubleshooting tips for the RL Series printer. Proper cleaning is critical. To maintain peak performance of the printer, Datamax-O'Neil offers a complete line of cleaning products, including pens, cards, films and swabs. The following table outlines the recommended maintenance schedule for the various printer parts.

Area	Method (Std. Models)	Method (Linerless Models)	Interval
• Printhead	Cleaning Card or Cotton Swab w/Isopropyl Alcohol	Cleaning Pens	After 3-5 rolls of media
Platen Roller	Cotton Swab w/Isopropyl Alcohol	Cleaning Pens	After 3-5 rolls of media
Peel-Off Roller	Cleaning Pens	Cleaning Pens	After 3-5 rolls of media
Lid Roller	Cotton Swab w/Isopropyl Alcohol	Cleaning Pens	After 3-5 rolls of media
Media Sensor	Compressed Air	Compressed Air	Monthly
Interior	Compressed Air	Compressed Air	As Needed



Isopropyl alcohol is a flammable solvent; always take the proper precautions when using this substance.

To achieve optimum print quality and maximum printhead life, Datamax-O'Neil specifies the use of Datamax-O'Neil-brand media and ribbons. These supplies are specially formulated for use in D-O printers; use of non-Datamax-O'Neil supplies may affect the print quality, performance and life of the printer or its components.

4.2 Cleaning the Printhead

If print quality declines (symptoms include non-compliant bar codes, print dropouts and streaks), the typical cause is debris buildup on the printhead. Furthermore, when the buildup is not removed it may lead to reduced service life or printhead failure. Streaks in printed labels usually indicate a dirty or faulty printhead.

To clean the printhead (using a Datamax-O'Neil cleaning card):



The following procedure is for "standard configuration" printers. Linerless printers should only be cleaned with the Datamax-O'Neil Cleaning Pens.

1) Open the printer Cover. Remove any media installed in the printer. Open the External Media Door located in the bottom of the printer.



External Media Door

2) Remove the cleaning card from its package. Insert the cleaning card through the External Media Door and into the printer as shown:



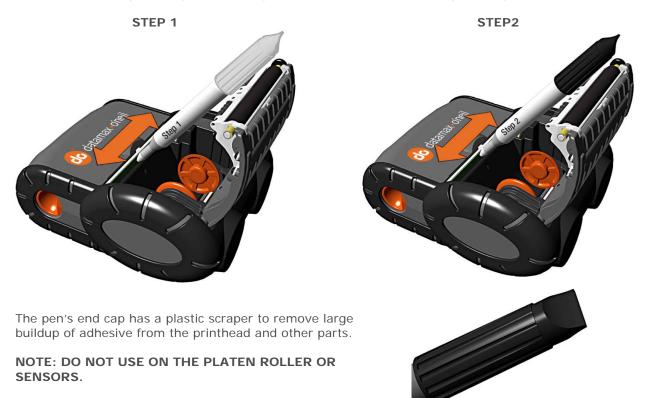
3) Close the Cover and then Press the **6** button several times until the cleaning card has been completely fed through the printer. Repeat if necessary.



4) Reload the media. Close the Cover, push down until it latches closed. Press the **6** button to normalize tracking.

To clean the printhead (using Datamax-O'Neil Cleaning Pens #770189-000):

The Cleaning Pens are typically intended for use on linerless-model printers or any printer with adhesive buildup. They are used to clean components that are exposed directly to adhesive. Two pens are included in the kit, the first pen "Step 1" breaks up the adhesive and the second pen "Step2" removes it.



5 Troubleshooting

5.1 Introduction

Occasionally, situations arise that require troubleshooting. Possible problem situations and potential solutions are listed below. Contact a qualified technician for problems that persist or problems not covered in this section.

Contact Datamax-O'Neil Customer Service for further details.

For further details regarding parts availability and where to buy, contact Datamax-O'Neil by Honeywell Customer Service.

5.2 Troubleshooting Tips

The following section lists the symptoms and the associated User's Guide Sections for the topics covered. While not every situation is addressed, you may find some tips helpful. After a corrective action is taken,

press the **o** button to clear the alarm.

Unacceptable print quality:

- Dirty printhead: Clean the printhead (see Section 4.2).
- The temperature setting may be incorrect for the media being used. Use the NETira[™] CT Printer Configuration Utility or software commands to adjust the Heat Setting and Print Speed.
- Faulty printhead: Call for service.

The printer does not print or prints several labels at once:

- The labels are incorrectly loaded: See the loading instructions in Section 2.3.
- The media is not calibrated: Calibrate it as directed in Section 3.5.
- The media sensor or sensor circuitry may be defective: Call for service.

Skips every other label or occasionally skips labels

- The label is formatted too close to the top edge of the label: Leave white space equal to 8-dot rows [about 0.02 inch (0.5 mm)] at the top of the label.
- The media is not calibrated: Calibrate it as directed in Section 3.5.
- The media sensor or media-sensor circuitry may be defective: Call for service.

Unable to print rotations:

• The characters are formatted outside the dimensions of the label: Check that the row/column values provide enough room for the height of the image being printed.

Light print on the right side of the label:

- The printer's cover is not latched down: Latch it.
- The printhead is not properly aligned: Call for service.

Printer fails to power ON:

- The battery may need to be charged: Charge the battery (see Section 2.1).
- For RL3/RL3e models, make sure the printer is turned on (see Section 3.1.3).

Label advances eight (8) inches before a fault indication:

- The media may not be properly loaded: Reload it (see Section 2.3). When loading media ensure that the supply hubs are against the media and that gaps or marks in the labels are in line with the media sensor.
- The media sensor or media-sensor circuitry may be defective: Call for service.

Labels move excessively from side to side during printing:

• The media may not be properly loaded: Reload it (see Section 2.3). When loading media ensure that the supply hubs are against the media and that gaps or marks in the labels are in line with the media sensor.

When using Peeler Mode, slack in backing (liner) material occurs:

• With some types of media it may be necessary to periodically remove slack in the liner material that accumulates before the Peeler Door. To remove: Hold the Peeler Door closed and pull on the liner material until the slack is removed and the liner is tight.



For list of possible error codes and conditions, please refer to Appendix E.



Physical Characteristics

Dimensions	RL3/RL3e: 5.6" w x 7.6" h x 3.2" d (142 x 193 x 81 mm) RL4/RL4e: 6.5" w x 7.9" h x 3.2" d (166 x 200 x 81 mm)
Weight (printer only):	RL3/RL3e: 1.95 lbs. (0.88 kg) RL4/RL4e: 2.16 lbs. (0.98 kg)
Drop Specifications	6 ft. (1.8 m)
User Interface	128 x 64 LCD display with white LED backlighting. Four (4)-button user interface

User Environment

Operating Temperature	-4°F to 122°F (-20°C to 50°C)
Storage Temperature	40°F to 140°F (-40°C to 60°C)
Charging Temperature	40°F to 104°F (5°C to 40°C)
Relative Humidity	10% – 90% non-condensing
ESD Protection	RL4/RL4e: 8kV Air/ 6kV Contact; RL3/RL3e: 6kV Air/6kV Contact

Print Technology

Printhead	Direct thermal; 203 dots per inch (8 dots per mm)
Print Width	RL3/RL3e: 2.8" (72 mm) RL4/RL4e: 4.125" (105 mm)
Print Speed	4" per second (102 mm per second)

Memory

Installed Memory	RLe: 64 MB RAM/128 MB Flash
	RL: 32 MB RAM/64 MB Flash

Media

Media Types	RL3/RL3e: 1.00"– 3.125" (26 – 79 mm) RL4/RL4e: 2.00"– 4.12" (51 – 105 mm) Linered and linerless (if equipped) labels with black mark or gap sensing. External fanfold or roll supply.
Media-Thickness Range	2 mil – 6.5 mil
Media-Roll Capacity	2.65" (67 mm) O.D. on 0.75" (19 mm) I.D. core

Communications

Serial Interface	RS-232, up to 460.8 kbps
USB Interface	2.0 (full speed)
Bluetooth Interface	Supported versions: Version 4.0 LE, Class 2; Serial-port profile
Wireless LAN	Network standard: IEEE 802.11 a/b/g/n with Dual Radio Wireless access modes: Infrastructure and ad-hoc Security Protocols: WEP (64/128), WPA (TKIP/RC4), WPA2 (CCMP/AES) Authentication: LEAP, EAP-PEAP, EAP-FAST, EAP-TTLS, EAP-LEAP:
Network Support	DHCP, TCP, UDP, DNS, BOOTP

Power Source

Battery	14.8V Lithium-ion, 2200 mAh (33 W-h)
DC Inputs	Smart Battery External DC jack, 11-15V, built-in spike and surge protection
	External charge contacts, 11-15V, built-in spike and surge protection
Recharging	4-6 hours
RL3 Endurance	Prints more than 5,500 3"x1" (76.2 x 25.4 mm) labels when operating eight (8) continuous hours.
RL4 Endurance	Prints more than 320 $4^{*}x6^{*}$ (100 x 150 mm) labels when operating 16 continuous hours.

Barcodes/Fonts/Graphics

The printer is equipped with the most-popular industry fonts and bar codes; see the Programmer's Manual for full listings and detailed information.

Scalable Fonts:

- CG Triumvirate[™] Bold Condensed, CG Triumvirate & CG Times with Cyrillic, Greek, Arabic and Hebrew character support from Monotype Imaging

Standard fonts:

- 5.5CPI, 7.2CPI, 10.2 CPI, 10.7CPI, 18.5CPI 20.4CPI, 22.6CPI, 34.0CPI, OCR-A, OCR-B (additional fonts available)

- Downloadable font types:
- True Type, Bitmap
- Character Sets:
- Unicode/UTF8 support; 50 international symbol sets, Big 5, JIS and Shift JIS, and more
- Optional characters:
- Arabic, Greek, Hebrew, Unicode subset, including Latin

- Asian (including Big 5, Simplified Chinese, Kanji, Hangul and Shift JIS); additional international characters available

• Barcodes:

- Linear: Codabar, Code 3 of 9, Code 93, Code 128, EAN-8, EAN13, Interleaved 2 of 5, HIBC, PLESSEY, MSI/Plessey, UCC/ EAN-128, UPC-A, UPC-E, UPC 2- and 5-digit addendums, Postnet, Telepen, UPS MaxiCode, FIM, USD-8

- 2D Symbologies: PDF417, Aztec, QR Code, GS1, Datamatrix, TLC39, MicroPDF417

• Graphics:

- Supports storage of graphics/logos in Flash memory and transient "print once" graphic

Software/Firmware

- NETira[™] CT Configuration Tool complete printer set-up utility
- Control Language Compatibility:
- NETira[™] MS Menu Scripting
 NETira[™] LD Label Design Software
- EZ-Print, DPL, ZPL II[®], CPCL, IPL[™], XML (limited)
- Device Management Support and Compatibility:
- NETira[™] Remote Management: Monitor and manage printers
- NETira™ MD: Mobile Device Management Utility for Smart Mobile Devices
- NETira[™] Connector (CA): Access AirWatch[®] Mobile Device Management Console
- Skyze and QualSoft MDM
- Network Compatibility
- TCP-IP based networks
- AS/400 (LPD)-based networks
- O/S Support:
- Windows® CE x/6.x to 6.0, Windows® Mobile and Android O/S
- Label design software compatibility:
- BarTender[®], Niceware/NiceLabel and others
- ERP Systems:
- SAP, Oracle
- Software development kit:
- Android 2.1 and above, IOS 5,6 and 7
- Microsoft Windows® Desktop up to Windows® 8, Windows® 8 Store, Windows® Mobile and Windows® CE
- C++, C Sharp, Java, Active X Control

B Supplies and Media

B.1 Supplies

To achieve optimum print quality and maximum printhead life, Datamax-O'Neil specifies the use of Datamax-O'Neil brand media. These supplies are specially formulated for use in our printers; use of non-Datamax-O'Neil supplies may affect the print quality, performance and life of the printer or its components.

For a current list of approved media and ribbons for use in direct-thermal and thermal-transfer applications, please contact your Datamax-O'Neil Media Representative.

Direct Thermal Linered/Linerless Labels - 0.75" Core ID, 2.65" Roll O.D.

Direct Thermal Linered/Linerless Labels and Receipt Paper - ImagePro Labels - Standard with Permanent Adhesive

Part Number	Width x Length	Approx. LBS/CTN	Rolls/CTN	Labels/Roll
740854-912	2.0" x 1.0" Die Cut (0.125" gap) - PERM	14	50	645
740855-909	3.0" x 2.0" Die Cut (0.125" gap) - PERM	14	50	340
740855-202	*Linerless/REM 3.0" x 113'	33	30	N/A
740855-203	*Linerless/PERM 3.0" x 113'	33	30	N/A

Direct Thermal Linered/Linerless Labels and Receipt Paper - 0.75" Core I.D., 2.65" Roll O.D.

Direct Thermal Linered/Linerless Labels and Receipt Paper - ImagePro Labels - Standard with Permanent Adhesive

Part Number	Width x Length	Approx. LBS/CTN	Rolls/CTN	Labels/Roll
740854-914	4.0" x 2.0" Die Cut (0.125" gap) - PERM	15	50	370
740854-915	4.0" x 3.0" Die Cut (0.125" gap) - PERM	15	50	245
740854-916	4.0" x 4.0" Die Cut (0.125" gap) - PERM	15	50	185
740854-910	4.0" x 6.0" Die Cut (0.125" gap) - PERM	17	50	123
740854-202	*Linerless/REM 4.0" x 85'	33	30	N/A
740854-203	*Linerless/PERM 4.0" x 85'	33	30	N/A

*Must be used in linerless capable RL Series printers. PERM = Permanant Adhesive. Contact your sales representative for details.

Direct Thermal Receipt Paper - 0.75" Core ID, 2.65" Roll OD

Part Number	Width x Length	Approx. LBS/CTN	Rolls/CTN	Labels/Roll
RL3e				
740855-102	Premium - 3.0" x 164' - Continuous	8	50	N/A
RL4e				
740854-102	Premium - 4.125" x 171' - Continuous	9	50	N/A

Cleaning Pens and Cards - For Adhesive Applications

Part Number	umber Printer Models		Pens/Cards per CTN for Step 1 and Step 2
770189-000	RL3, RL3e, RL4, RL4e Label	10	2 Part Cleaning Pen

A two-step process designed to remove adhesive residue and give the thermal printhead, rollers and paper path a thorough cleaning.

Each step involves inserting a chemically saturated card into the paper path. Step one will remove adhesive residue.

Step two will remove any chemical residue remaining from the Step one card as well as all dirt and other contaminates from the thermal printhead, rollers and paper path. Sold in carton quantities.

B.2 RL/RLe Series Peripherals and Accessories

Part#	Description		
AC Adapters - Batt	AC Adapters - Battery Chargers		
220515-100	AC Adapter for Charging with U.S. plug		
220516-100	AC Adapter for Charging with EU plug		
220517-100	AC Adapter for Charging with UK plug		
220521-100	AC Adapter for Charging with Swiss plug		
220518-100	AC Adapter for Charging with AU plug		
220282-000	DC/DC Voltage converter (12v-60v)		
220207-200	Vehicle Charge Cable Kit, [10 ft (3 m)]		
510116-001	Cigarette Lighter Vehicle Power for Thermal Printers		
220275-000	Battery Charging Cradle (2 bay)		
550046-001	Spare Battery		
220284-000	Multiple Unit Charging Adapter with Power Supply (1 to 4), US Plug		
220285-000	Multiple Unit Charging Adapter with Power Supply (1 to 4), EU Plug		
220286-000	Multiple Unit Charging Adapter with Power Supply (1 to 4), UK Plug		

Multi-Bay Charger (Includes High Capacity AC Adapter and Multi-Unit Charging Adapter for multi-unit models)

229028-000	Multi-Bay Charging Kit, RL series, 4-Upright Unit Depot Charger, US Plug
229029-000	Multi-Bay Charging Kit, RL series, 3-Upright Unit & 2 Battery Depot Charger, US Plug
229030-000	Single Charger Stand, RL Series - AC not included

Communication Cables

210304-100	USB Cable (mini B to USB-A)
210164-100	Cable, Coiled, Right Angle, DB9 F
210191-101	Cable DB-9 F [7 ft (2.1 m)]

Accessories

230112-000	RL Series Universal Mounting Bracket
280656-000	RL Series Belt Clip
210305-000	RL Series Belt Loop
210300-000	RL Series Hand strap
210302-000	RL Series Shoulder Strap
750332-000	RL3 / RL3e IP54 Case
220280-000	RL Series "RAM Mount" compatible Adapter and Ball
280711-000	External Media Spacer - RL3 / RL3e
280688-000	External Media Spacer - RL4 / RL4e

C Wireless LAN and Bluetooth[®] Setup

C.1 Introduction

The printer makes IP requests at power-up, so before making a network connection to the printer consider how your IP addressing needs to be assigned. The IP addressing of the printer can be configured in one of two ways: Using a static IP Address or Using IP Discovery (DHCP, BootP or RARP).

Default Network Settings:

The following table lists some of the printer's default network settings. Any of these parameters can be modified using the NETira[™] CT Printer Configuration Utility program.)See Section 3.4 for more information on NETira[™] CT.)

Network	RL3	RL3e	RL4	RL4	RL4e
Parameter	(All firmware Versions)	(All firmware Versions)	(Firmware Version 8_02_0050 or earlier)	(Firmware Version 8_02_0051 or later)	(All firmware Versions)
ESSID:	D-0	D-0	(None)	D-0	D-0
TCP Port:	9100	9100	515	9100	9100
UDP Port:	9200	9200	515	9200	9200
Bluetooth® Name:	Printer - RL3	DO_ <serial number=""></serial>	Printer - RL4	Printer - RL4	DO_ <serial number=""></serial>

- Turn the printer ON and connect it to the computer using the USB cable. Refer to Section 3.3 - Establishing Printer Connection.
- Install and Open the NETira[™] CT Printer Configuration Utility application on your PC (see Section 3.4 for more information).
- 3) Query the printer by using the "Update Available Connection For Printer". This will look for the "USB Virtual COM Port." Once it is completed, reopen the dropdown menu and select the assigned port. If the printer fails to detect the USB Virtual COM port, check "Click on Settings" and select the COM port that is assigned to the Datamax-O'Neil USB CDC Class Device COM port.

NOTE: The message "Done query printer" confirms that the communication process was successfully executed.

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RL3			
eady		[(USB_VRTUAL_COM_PORT: COM23);(Cont	ol Code: Standard)

1	🕫 RS232 Confi	guration
	Port:	Keyspan USB Serial Port (COM7) Datamax-ONel USB CDC Class Device (COM8) Intel(R) Active Management Technology - SOL (Cl Keyspan USB Serial Port (COM7)
	BaudRate:	
	Data Bits:	8 •
	Parity:	None
	Stop bits:	One 🔹
	Handshake:	None
	Read Timeout:	1000 👻
	Read Buffer:	16384 💌
	Write Timeout:	4000 👻
	Write Buffer:	32768 🗸
		Default OK Cancel

C.2 Static IP/DHCP Setting

The printer can be configured to use a static IP or a dynamic IP obtained from a DHCP server.

Using a Dynamic IP Address (DHCP):

- 1) Click on the "Wireless General Network" printer component.
- 2) Change (or confirm) the following parameter setting:
- IP address method: DHCP
- After updating the "New Value" column, click the "Send" button to send these changes to the printer.

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Print Control			Active IP address (READ ONLY)	1005	0	10.0.00	
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9 Sensor Calibration		1	DHCP User Class Option (Click User Class Option for DHCP button bel.		0	+	
3 Miscellaneous		11	Enable Connection Status Report	543	0	No	
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Auto Update		10	LTO Ped	515	0	515	
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Airwatch							
# RS232		13	Static Gateway	0.0.0.0	0	0.0.0	
General Network			Static IP address	00.05	0	9.0.00	
4 WPL		11	Static Subnet mask	0000	0	9.0.00	
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		Setings	DHS Suffr (Max, 54 ches) Enable State: DHS Prefered: DHS State: P Prefered: DHS State: P Respire: To DHS Secondary (DHS) Event IP	- No 0.037 - No 0.037	0 0 0 0	New Value - No 0.0.07 - No 0.0.07	
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Values obtained from the DHCP server will be shown under the fields: Active IP address, Active Subnet Mask and Active Gateway.

Using Static IP Address:

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- 1) Click on the "Wireless General Network" printer component.
- 2) Change (or confirm) the following parameter settings:

IP address method: Static

Static IP address: According to your network IP range.

Static Subnet mask: According to your network subnet mask.

 After updating the "New Value" column, click the "Send" button to send these changes to the printer.

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C.3 Infrastructure/Ad-hoc Setting

- 1) Click on the "Wi-Fi" printer component.
- 2) Change (or confirm) the following parameter settings:

ESSID: (*Default:* **D-O**) Type name that matches the name of your access point.

Network Type: Infrastructure or Ad-hoc.

 After updating the "New Value" column, click the "Send" button to send these changes to the printer.

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NOTE: To validate a successful Wireless LAN connection, the IP address obtained from the access point will be shown on the LCD display of the printer.

C.4 Wireless LAN Security Settings

The printer can be configured to utilize several Wireless LAN security protocols. The following sections outline the most popular configurations.

B.4.1 WEP 64 & 128 Bit

- 1) Click on the "W-Fi" printer component.
- 2) Click the "Static WEP" radio button.
- Change (or confirm) the following parameter settings:

WEP Selected Key: Select the key number to use.

WEP AP authentication:

Users share 40-bit = 64-bit encryption. Users share 128-bit = 128-bit encryption.

WEP Data Encryption:

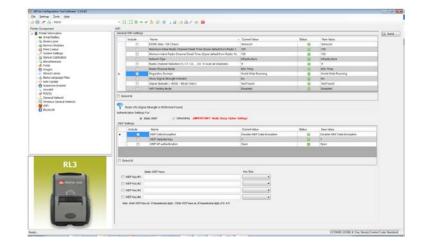
Enable WEP Data Encryption.

WEP Key #1-4:

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Enter the WEP keys that match values used in the access point.

 After updating the "New Value" column, click the "Send" button to send these changes to the printer.



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C.4.2 WPA2-PSK w/CCMP

- 1) Click on the "Wi-Fi" printer component.
- 2) Click the "Click the WPA/WPA2" radio button.
- Change (or confirm) the following parameter settings:

Group Cipher: CCMP

Network Authentication Type: WPA2-PSK

- Type the Pass Phrase under the "WPA_PSK_TKIP/WPA2_PSK settings" section. Note that Pass Phrase is case-sensitive.
- 5) After updating the "New Value" column, click the "Send" button to send these changes to the printer.

C.4.3 WPA2-PSK w/TKIP

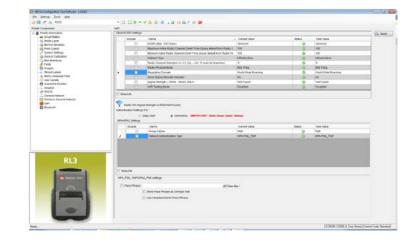
- 1) Click on the "Wi-Fi" printer component.
- 2) Click the "Click the WPA/WPA2" radio button.
- Change (or confirm) the following parameter settings:

Group Cipher: TKIP

Network Authentication Type: WPA2-PSK

- Type the Pass Phrase under the "WPA_PSK_TKIP/WPA2_PSK settings" section. Note that Pass Phrase is case-sensitive.
- 5) After updating the "New Value" column, click the "Send" button to send these changes to the printer.

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C.4.4 WPA2-Enterprise

- 1) Click on the "W-Fi" printer component.
- 2) Click the "Click the WPA/WPA2" radio button.
- Change (or confirm) the following parameter settings:

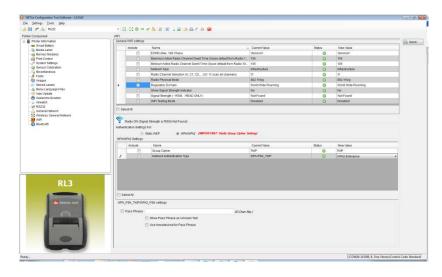
Network Authentication Type: WPA-Enterprise

Phase 2 Method: EAP-MSCHAPv2

EAP Type: Select EAP-PEAP **NOTE:** EAP Type can be variable. Other values supported: EAP-LEAP, EAP-TTLS, EAP-PEAP and EAP-FAST.

- 4) Type the username and password under the "WPA/WPA2 Enterprise" section.
- 5) After updating the "New Value" column, click the "Send" button to send these changes to the printer.

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The Images		8	Radio Physical Mode	802.11b/g	0	902.11b/g	
 Stored Labels 	•		Regulatory Domain	World Wide Roaming	0	World Wide Roaming	
- A Menu Language Files			Show Eignal Strength Indicator	No	0	No	
Auto Update Avalanche Enabler		13	Signal Strength (-RSSI - READ ONLY)	Not Found	0	NotFound	
- Arwatch		23	WIFI Testing Mode	Disabled	0	Disabled	
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RL3		MPA2 Settings	Name Group Cipter	Current Value	0	TKIP	•
	2 1 10	MPA2 Settings	Nama Grang Opter Teleholt sufferenciation Type N2_PEX selfings	Curret Value Tapi Wark Plac, Tapi	0	TKIP	•
	2 1 10	MPA2 Settings Include DetectAll A_PSK_TKPW	Nama Grag Optim Networksketerister NG_PSK setrojs	Curret Value Tapi Wark Plac, Tapi	0	TKIP	
	2 1 10	MPA2 Settings Include DetectAll A_PSK_TKPW	Norm Grap Opter Telefoni utbericate Type N2_75K selfleps 0 ther Plas in Roses as Uncush Ted	Curret Value Tapi Wark Plac, Tapi	0	TKIP	•
	2 1 10	MPA2 Settings Include DetectAll A_PSK_TKPW	Nama Grag Optim Networksketerister NG_PSK setrojs	Curret Value Tapi Wark Plac, Tapi	0	TKIP	
	2 1 10	MPA2 Settings Include DetectAll A_PSK_TKPW	Norm Grap Opter Telefoni utbericate Type N2_75K selfleps 0 ther Plas in Roses as Uncush Ted	Curret Value Tapi Wark Plac, Tapi	0	TKIP	•
	2 1 10	MPA2 Settings Include DetectAll A_PSK_TKPW	Norm Grap Opter Telefoni utbericate Type N2_75K selfleps 0 ther Plas in Roses as Uncush Ted	Curret Value Tapi Wark Plac, Tapi	0	TKIP	
	2 1 10	MPA2 Settings Include DetectAll A_PSK_TKPW	Norm Grap Opter Telefoni utbericate Type N2_75K selfleps 0 ther Plas in Roses as Uncush Ted	Curret Value Tapi Wark Plac, Tapi	0	TKIP	
	2 1 10	MPA2 Settings Include DetectAll A_PSK_TKPW	Norm Grap Opter Telefoni utbericate Type N2_75K selfleps 0 ther Plas in Roses as Uncush Ted	Curret Value Tapi Wark Plac, Tapi	0	TKIP	•
	2 1 10	MPA2 Settings Include DetectAll A_PSK_TKPW	Norm Grap Opter Telefoni utbericate Type N2_75K selfleps 0 ther Plas in Roses as Uncush Ted	Curret Value Tapi Wark Plac, Tapi	0	TKIP	



C.4.5 WPA-PSK TKIP w/TKIP

- 1) Click on the "Wi-Fi" printer component.
- 2) Click the "Click the WPA/WPA2" radio button.
- Change (or confirm) the following parameter settings:

Group Cipher: TKIP

Network Authentication Type: WPA2-PSK_TKIP

- 4) Type the Pass Phrase under the "WPA_PSK_TKIP/WPA2_PSK settings" section. Note that Pass Phrase is case-sensitive.
- 5) After updating the "New Value" column, click the "Send" button to send these changes to the printer.

🖥 💉 👍 185232		110-	✓ A 2 2 3 4 A 4 A 6 A				
inter Component	WIFI						
Frinter Information	Gener	rai WIFI settings					a Sen
- Smart Battery - B Media Label		Include	Name	 Current Value 	Status	New Value	
Memory Modules		0	ESSID (Max. 128 Chars)	"danacon"	0	danacon'	
Print Control			Maximum Active Radio Channel Dwell Time (0)use default from Radio 1	106	0	105	
- Paystern Settings		13	Mininum Adve Radio Channel Dwell Time (0)use default from Radio 10.	105	0	105	
- Sensor Calibration			Network Type	Initiastructure	0	Infrastructure	
- G Miscellaneous		173	Radio Channel Selection (n. C1. C2 Cn': 17 scan all channels)	.0.	0	σ	
T images		E1 -	Radio Physical Node	802.110/p	0	802.115/p	
- Stored Labels		[3	Requistory Domain	World Wide Roaming	0	World Wide Reaming	
- 4 Menu Language Files		(1)	Show Signal Strength Indicator	Na	0	No	
- Auto Update		171	Signal Strength (-RSSI - READ CINLY)	NotFound	0	Not Found	
- O Avalanche Enabler		171	WIFI Testing Mode	Disabled	0	Disabled	
- Anwatch - UR R1232	in the second	- Contraction	The standy local	- Constants		Distance	
General Network	E 94	elect All					
	WPA	WPA2 Settings		100.00045523171			
	WPA	include	Name	Current Value	Status	New Value	_
		Include	Group Opher	тюр	Status	TKIP	
	WPA J	include	Group Cipher Network Authentication Type	TKIP WPA-PSK_TKIP	0	TKIP WPA-PSK_TKIP	
		include	Group Cipher Network Authentication Type EAP Type	TKIP WPX-PSK_TKIP EAP-PEAP	0 6 0	TNP WPA-PSK_TKIP EAP-PEAP	•
		include	Group Cipher Helsenrikultenlication Type EAP Type Phase 2 Nethod	TKIP WPA-PSK_TKIP EXP-PEAP EXP-NSCH4Ps2	0 6 0	TKIP WPA-PSK_TKIP EAP-PEAP EAP-MSCHAP/2	•
		include	Group Cipher Network Authentication Type EAP Type	TKIP WPA-PSK_TKIP EXP-PEAP EXP-NSCH4Ps2	0 6 0	TNP WPA-PSK_TKIP EAP-PEAP	•
813		include	Group Cipher Helsenrikultenlication Type EAP Type Phase 2 Nethod	TKIP WPA-PSK_TKIP EXP-PEAP EXP-NSCH4Ps2	0 6 0	TKIP WPA-PSK_TKIP EAP-PEAP EAP-MSCHAP/2	
RL3		include	Group Cipher Helsenrikultenlication Type EAP Type Phase 2 Nethod	TKIP WPA-PSK_TKIP EXP-PEAP EXP-NSCH4Ps2	0 6 0	TKIP WPA-PSK_TKIP EAP-PEAP EAP-MSCHAP/2	
RL3		include	Group Cipher Helsenrikultenlication Type EAP Type Phase 2 Nethod	TKIP WPA-PSK_TKIP EXP-PEAP EXP-NSCH4Ps2	0 6 0	TKIP WPA-PSK_TKIP EAP-PEAP EAP-MSCHAP/2	
RL3		include	Group Open Thermon-Ambrachan Tope (JPT Tope Phase 2 Detection User Clear Contribute (optional for EAP-PEAP EAP-PAST and EAP-TILS). User Clear Contribute (optional for EAP-PEAP EAP-PAST and EAP-TILS).	TKIP WPA-PSK_TKIP EXP-PEAP EXP-NSCH4Ps2	0 6 0	TKIP WPA-PSK_TKIP EAP-PEAP EAP-MSCHAP/2	
	2 0 5 10 5	include	Group Open Thermon-Ambrachan Tope (JPT Tope Phase 2 Detection User Clear Contribute (optional for EAP-PEAP EAP-PAST and EAP-TILS). User Clear Contribute (optional for EAP-PEAP EAP-PAST and EAP-TILS).	1929 WPA-PSK_TKP EUP-PEUP EUP-NICCHIP/2 No	0 6 0	TKIP WPA-PSK_TKIP EAP-PEAP EAP-MSCHAP/2	•
		Include	Grang Capter Grang Capter Get Type Get Type Get Type Get Type Get Type Get Type Get Capter Capt Field Get Get Capt Field	1137 WPA-PSK_TOP EVP-PE/P EVP-MSCHIP/2 No	0 6 0	TKIP WPA-PSK_TKIP EAP-PEAP EAP-MSCHAP/2	
		Include	Grand Carlee Grand Carlee Get Type Get Type Type Get Carl Carl Carl Carl Carl Field Exer Field Get Carl Carl Carl Carl Field Get Carl Carl Carl Carl Carl Carl Carl Carl	1137 WPA-PSK_TOP EVP-PE/P EVP-MSCHIP/2 No	0 6 0	TKIP WPA-PSK_TKIP EAP-PEAP EAP-MSCHAP/2	
		Include	Grang Capter Grang Capter Get Type Get Type Get Type Get Type Get Type Get Type Get Capter Capt Field Get Get Capt Field	1137 WPA-PSK_TOP EVP-PE/P EVP-MSCHIP/2 No	0 6 0	TKIP WPA-PSK_TKIP EAP-PEAP EAP-MSCHAP/2	
		Include	Grand Carlee Grand Carlee Get Type Get Type Type Get Carl Carl Carl Carl Carl Field Exer Field Get Carl Carl Carl Carl Field Get Carl Carl Carl Carl Carl Carl Carl Carl	1137 WPA-PSK_TOP EVP-PE/P EVP-MSCHIP/2 No	0 6 0	TKIP WPA-PSK_TKIP EAP-PEAP EAP-MSCHAP/2	
		Include	Grand Carlee Grand Carlee Get Type Get Type Type Get Carl Carl Carl Carl Carl Field Exer Field Get Carl Carl Carl Carl Field Get Carl Carl Carl Carl Carl Carl Carl Carl	1137 WPA-PSK_TOP EVP-PE/P EVP-MSCHIP/2 No	0 6 0	TKIP WPA-PSK_TKIP EAP-PEAP EAP-MSCHAP/2	
		Include	Grand Carlee Grand Carlee Get Type Get Type Type Get Carl Carl Carl Carl Carl Field Exer Field Get Carl Carl Carl Carl Field Get Carl Carl Carl Carl Carl Carl Carl Carl	1137 WPA-PSK_TOP EVP-PE/P EVP-MSCHIP/2 No	0 6 0	TKIP WPA-PSK_TKIP EAP-PEAP EAP-MSCHAP/2	
		Include	Grand Carlee Grand Carlee Get Type Get Type Type Get Carl Carl Carl Carl Carl Field Exer Field Get Carl Carl Carl Carl Field Get Carl Carl Carl Carl Carl Carl Carl Carl	1137 WPA-PSK_TOP EVP-PE/P EVP-MSCHIP/2 No	0 6 0	TKIP WPA-PSK_TKIP EAP-PEAP EAP-MSCHAP/2	
		Include	Grand Carlee Grand Carlee Get Type Get Type Type Get Carl Carl Carl Carl Carl Field Exer Field Get Carl Carl Carl Carl Field Get Carl Carl Carl Carl Carl Carl Carl Carl	1137 WPA-PSK_TOP EVP-PE/P EVP-MSCHIP/2 No	0 6 0	TKIP WPA-PSK_TKIP EAP-PEAP EAP-MSCHAP/2	•

C.5 Resetting the Printer

In the event of a Wireless LAN communication problem (drop-offs, hangs, can't communicate, etc.), the printer can be reset.

To reset the printer:

- 1) Press and hold the button until the "Radio Off" message is displayed and then release.
- 2) Next, press and hold the button until the "Turning Radio On" message is displayed and then release.

The printer will reboot and attempt to connect to the network device using the parameters previously set in the printer.

As an alternate method, remove the battery from the printer, wait 20 seconds and then reinstall the battery. See Section 2.1.

C.6 Bluetooth[®] Setup

The printer is configured with default factory settings. To determine your printer's configuration, print a Configuration Label (see Section 3.2).

- Click the Bluetooth[®] menu item in the Printer Component section of the configuration utility.
- To set up the printer for Bluetooth[®], change (or confirm) the following parameter settings:

Bondable: Yes

Connectable: Yes

Discoverable: Yes

- PassKey: Default "0000" (must match entry used on host computer)
- After updating the "New Value" column, click the "Send" button to send these changes to the printer.
- 4) Allow 30 seconds for the printer to reset. For connection to the printer, please refer to the instructions included with your Bluetooth[®] adapter or host computer/handheld.

🤹 🔜 💉 🚠 R5232 Printer Component	Bluetcoth	110-					
B Printer Information		Settings					🕞 Gen
- Smart Battery	- T	Include	Name	Current Value	Status	New Value	100 000
- D Media Label		E	Authentication Required	Force Authentication on Printer	0	Force Authentication on Printer	-
Memory Modules Print Control		11	Blustooth Device Name (32 chars Max.)	D0 L002013	0	D0 LC02013	_
		10	Botdable	Yes	0	Yes	
- Bensor Calibration		0	Connectable	Tes	0	Yes	
- Miscellaneous		13	Discoverable	Yes	0	Yes	_
- A Fonts		171	Encryption	Yes	0	Yes	
- Stored Labets		13	Inadive Disconnect Time (0-65535 seconds)	50	0	60	_
- A Menu Language Files			PassKey (16 chars Max. WRITE ONLY)		0		
- Auto Update - Maralanche Enabler		13	Power Down Time (0-85535 seconds)	60	0	60	_
- The Almysich							
-92 Workstein General Network 							Ŀ
- Apt WAFE							l
- It 1991	E Sein	rd At					
RL3	General	Information etooh Device /	Names 018012/00/1755 Name Profilg Serica				



D.1 Introduction

The printer can be connected to a PC or a handheld device using a USB cable. Before connecting the printer to your host device, the type (or class) of USB connection must be determined. There are three (3) classes of USB connections that are supported:

- CDC (Communication Device Class, virtual COM port via emulated RS-232)
- Printer Class (Typical Windows[®] Printer)
- Composite Class (CDC + Printer Class)

Whenever possible, it is recommended to use the Composite Class, as it gives the most flexibility. However, on some systems (e.g., handheld devices) CDC or Printer Class alone should be selected, as handheld devices have limited support.

Software/Files Needed:

The following files can be downloaded

- NETira[™] CT Printer Configuration Utility
- Qualsoft Windows[®] Drivers (for Printer and Composite Class installations only)
- "Datamax-O'Neil Windows Printer Drivers" (for Printer Class installations only)
- "Datamax-O'Neil CDC Class.inf" file (for CDC installations only)

Create a new folder on your local computer named "Drivers." Download the necessary files and place them in this folder.

D.2 Printer Configuration

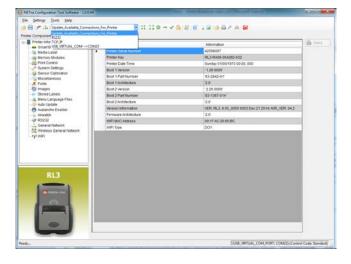
Before attempting a USB connection the printer must first be configured to use the desired USB class. Set the printer to appropriate USB class for your particular application by using the NETira[™] CT Printer Configuration Utility. The default setting is "Composite (CDC/Printer Class)."

- Turn the printer ON and connect it to the computer using the USB cable. Refer to Section 3.3 - Establishing Printer Connection.
- Install and Open the NETira[™] CT Printer Configuration Utility application on your PC (see Section 3.4 for more information).
- 3) Query the printer by using the "Update Available Connection For Printer." This will look for the "USB Virtual COM Port." Once it is completed, reopen the dropdown menu and select the assigned port. If the printer fails to detect the USB Virtual COM port, check "Click on Settings" and select the COM port that is assigned to the Datamax-O'Neil USB CDC Class Device COM port.

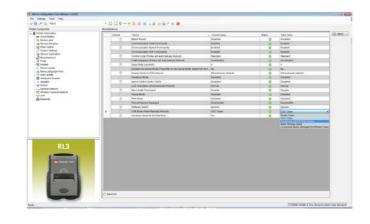
NOTE: The message "Done query printer" confirms that communication process was successfully executed.

- 4) Click on the "Miscellaneous" printer component.
- 5) Change (or confirm) the **USB Mode** parameter setting.
- 6) After updating the "New Value" column, click the "Send" button to send this change to the printer.
- 7) Proceed to the appropriate section to complete the USB connection.

Section C.3, Composite Class Section C.4, CDC Class Section C.5, Printer Class



Port:	Keyspan USB Serial Port (COM7)
	Datamax-O'Neil USB CDC Class Device (COM8) Intel(R) Active Management Technology - SOL (C(Keyspan USB Serial Port (COM7)
BaudRate:	9600 💌
Data Bits:	8
Parity:	None
Stop bits:	One 💌
Handshake:	None
Read Timeout:	1000 👻
Read Buffer:	16384 👻
Write Timeout:	4000 👻
Write Buffer:	32768 💌



D.3 Composite Class Installation

Composite (CDC/Printer Class) can be accomplished by updating the Windows® printer list.

- 1) Do not plug the USB cable into the computer's USB port. If you have done so, unplug it now.
- 2) Go to Windows[®] Desktop and click on "Device and Printers."

3) Click on "Add a printer."





6	₽ 4	dd Printer					
	Wha	at type of printer do you want to install?					
	۲	Add a local printer Use this option only if you don't have a USB printer. (Windows automatically installs USB printers when you plug them in.)					
	•	Add a network, wireless or Bluetooth printer Make sure that your computer is connected to the network, or that your Bluetooth or wireless printer is turned on.					
		Next Canc	el				

Choose a printer port		
A printer port is a type of con	nection that allows your computer to exchange in	
Use an existing port:	COM9: (Serial Port)	
Create a new port:		
Type of port:	Adobe PDF Port Monitor	

.....

5) Select "Use an existing port." **NOTE:** Try setting it for a COM Port higher than COM4.This can be updated once the printer and CDC drivers have been installed, if needed.

4) Click "Add a local printer." Then, click "Next."

6) Scroll through the "Manufacturer" list and click on "Datamax-O'Neil." Scroll through "Printers" and select the applicable printer.

NOTE: If Datamax-O'Neil or the correct printer does not appear in the selection boxes, click on "Windows Update" and repeat Step 6 once the update is completed.

7) If the printer drivers were previously installed you may see this screen. Choose the setting that applies and click "Next."

y " <u>u</u> "	Printer the printer driver	
-	Choose your printer from the list. Click Windows Update to see more models. To install the driver from an installation CD, click Have Disk.	
Manuf Adobe	Datamax-ONeil OC2	•
Brothe Canon Datam	ax-ONeil	H T
-	s driver is digitally signed. <u>Wi</u> ndows Update <u>H</u> ave Disk I me why driver signing is important	
	Next Can	el

		×
0	🖶 Add Printer	
	Which version of the driver do you want to use? Windows detected that a driver is already installed for this printer.	
	Use the driver that is currently installed (recommended) Seplace the current driver	
	Next	

8) You can use the default or type in a printer name, click "Next."

0	🖶 Add Printer		×
	Type a printer nar	ne	
	Printer name:	Datamax-ONeil RL3e	
	This printer will be inst	alled with the Datamax-ONeil RL3e driver.	
		Next Car	ncel

9) Share or do not share the printer, click "Next."

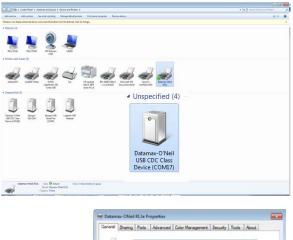
		×
🌀 🖶 Add Printer		
Printer Sharing		
If you want to share the type a new one. The s	his printer, you must provide a share name. You can use the suggested name or hare name will be visible to other network users.	
Do not share this p	rinter	
Share this printer s	o that others on your network can find and use it	
S <u>h</u> are name:		
Location:		
<u>C</u> omment:		
	Next Can	cel

10) Uncheck or check the box "Set as the default printer," then click "Finish." Do not print a test page.

🕞 🖶 Add Printer
You've successfully added Datamax-ONeil Apex 2
Set as the <u>default printer</u> You can choose a default printer for home, work, and other places you go. <u>Set up multiple</u> <u>default printers</u>
To check if your printer is working properly, or to see troubleshooting information for the printer, print a test page. Print a test page
Finish Cancel

11) Connect the USB cable to your printer and host PC. Right-click on your printer and select printer properties. Click on "Print Test Page." If the print test does not print, verify that the printer Com Port and the USB CDC class device COM Port match.

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-	Datamax-ONeil RL3	1			
Location:	1			-	
<u>C</u> omment:					
Mgdet	Datamax-ONel RL3e				
Features Color: No		Paper available			
Color: No Double-sid		Paper available	e.		
Staple: No	ieu. Ivo	Paper 2 x 1 in		÷.	
Speed: Uni	moan	Paper 3 x 3.15 Paper 2.25 x 1	in		
3.5.5	resolution: 203 dpi	Paper 2.25 x 2 Paper 2.25 x 2			
	Pa	ferences	Print	Iest Page	

12) To verify, right-click on the printer and select "Printer Properties." Next, click on the "Ports" tab. Verify that the Printer COM Port and the USB CDC Class Device COM Port match. To update the printer COM Port, select the port that matches the USB CDC Class device COM Port, then click "Apply" and "OK."

General Sharin	g Ports Advance	d Color Managemen	t Security	Tools About	
	tamax-ONeil RL3e				
Print to the for checked port		cuments will print to	o the first free	2	
Port	Description	Printer			1
COM14:	Local Port	Finter			
COM14:	Local Port				
	Local Port				
COM15:	Local Port				
COM18:	Local Port			=	
COM19:	Local Port			=	
	Local Port	Datamax-O	Neil RL3e	-	
Add P		Delete Port	Canfin	ure Port	1
Mud P	J.T.	Delate Port	Config	are Port	J
Example hid					
	irectional support				
📰 E <u>n</u> able prir					
Enable prin					
🔲 E <u>n</u> able prir					
E <u>n</u> able prir					
E <u>n</u> able prir			ok 📄	Cancel	Apply
Enable prin				Cancel	Apply
Enable prir			ok 📄	Cancel	Apply
Enable prir			рк 📄	Cancel	Apply
	nter pooling		ok 📄		
	nter pooling	from dog	ок		
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 Grandrad J Kalawatalawa Marana J Kalawatalawa M	1 Maxwellvis - Woog Middaires - Maxwegayates - 1) [
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A Contract of Contract (Contract of Contract	blackschlank b		DK .		

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D.4 CDC Class (optional)

Once the printer is installed following the process in **Section C.3**, both the printer driver and USB CDC drivers are installed. If the requirement is for CDC only, you need to update the printer **User Mode** using the NETira^T CT Printer Configuration Utility.

- Turn on the printer and wait until the "Ready" screen appears. Connect the USB cable to the PC.
- Open the NETira[™] CT Printer Configuration Utility.
- Query the printer by using the "Auto Detect" button. This will connect to the printer and retrieve the settings currently stored in the printer. If the printer fails to "Auto Detect," check your RS-232 settings to ensure you have the correct COM Port selected.
- Click on "Miscellaneous" and change the "USB Mode" to "CDC Class."

5) Press "Send."

# .h #5232		1.5.0 m					
	Macela						
r Component Printer information	Miscera	neosia					
- Smart Battery		Include	Name	Current Value	Status	New Value	Send
Wedalshel		10	British Pound	Disabled	0	Disabled	
in Memory Modules			Communication Heat Common ds	Enabled	0	Enabled	
A Print Control		10	Communication Speed Commands	Enabled	0	Enabled	
🥜 öystem Settings			Communication TOF Commands	Enabled	0	Enabled	
Sensor Calibration		17	Control Code (Printer will automatically Reboot)	Standard	0	Standard	
Kiscelianeous A Fonts			Cutter Equipped (Printer will automatically Reboot)	Disabled(N)	0	DisabledIN	
E Images		17	Delai Rate (seconds)	0	0	0	
o Stored Labels		110	Disable Hex Dump Model Put printer in Hex Dump Mode. Select 1VO for 1		ő	No	
A Menu Language Files		10	Display Mode for IPHostname	(PrHostname (default)	0	Phiostname (default)	
Auto Update			Feedback Node	Disabled	0	Disabled	
S Avalanche Enabler							
🛄 Ainwatch		13	Ignore Control Code (+0/20)	Claabled	0	Disabled	
4 RS232 General Network			LCD Orientation (Need Manually Reboot)	Normal	0	Normal	
SI2 Wireless General Network		15	MaxLength Command	Cisable	0	Disable	
AN WEI			Pause Mode	Disabled	0	Disabled	
Eliustooth		10	Peel Mode	Disabled	0	Disabled	
			Present Bensor Equipped	Disabled(N)	0	Disabled(N)	
		12	Software Switch	Ignored	0	Ignored	
		5	USB Mode (Need Manually Reboot)	COC Class	0	CDC Class .	
		171	Writiges Driver for EZ-Print RLE	No	0	Printer Class	
RL3	ſ					Bas Broge Clas Consiste Bas BrogeCOCHver Class	
-	E 544	rd.All		_	_		

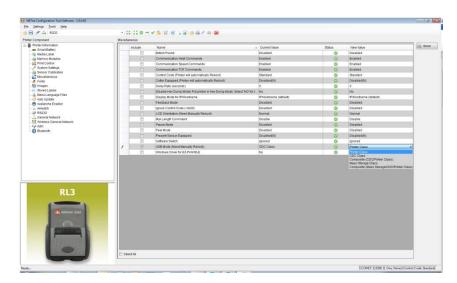
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D.5 Printer Class (optional)

Once the printer is installed following the process in **Section C.3**, both the printer driver and USB CDC drivers are installed. If the requirement is for Printer Class only, you need to update the printer **User Mode** using the NETira^M CT Printer Configuration Utility.

- Turn on the printer and wait until the "Ready" screen appears. Connect the USB cable to the PC.
- Open the NETira[™] CT Printer Configuration Utility.
- 3) Query the printer by using the "Auto Detect" button. This will connect to the printer and retrieve the settings currently stored in the printer. If the printer fails to "Auto Detect," check your RS-232 settings to ensure you have the correct COM Port selected.
- Click on "Miscellaneous" and change the "USB Mode" to "Printer Class."

5) Press "Send."





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E.1 Conditions

Code	Conditions Listing	
0	No Conditions	
1	Remove a Label	
2	Waiting for a GPIO Signal	
3	3 Thermal Printhead is Warm	
4	Print Engine is Calibrating Sensors	
5	FLASH is being Erased	
6	FLASH is being Written	
7	Network is Being Initialized	
8	Print Engine is NOT Calibrated	
9	Parser is in HEX DUMP Mode	
10	Verifier/GPIO Mode	
11	Print Engine in Print Test Rate Mode	
12	Waiting for Additional Data	
13	Motor is Warm	
14	RFID is Active	
15 Paper is Out		
16	Battery is Charging	
17	Battery is Dis-Charging	
18	Wired Ethernet - 802.3 - Is Active	
19	Wireless Ethernet - 802.11 - Is Active	
20	Bluetooth [®] - 802.15 - Is Active	
21	Battery Charging	
22	AC Plugged In	
23	WIFI Attempting to Connect	
24	WIFI Radio is OFF	

NOTE: Codes listing is for notification information only; no user interaction required.

E.2 Warnings

E.2 Warnings				
Code	Warning Listing			
100	No Warnings			
101	Ribbon Is Low			
102	TPH Needs Cleaning			
103	RFID Write Warning			
104	Changes are Pending			
105	Low Voltage			
106	Power Down Imminent			
107	Rewinder Full			
108	Thermal Printhead Mismatch			
109	High Voltage			
110	Media Low			
111	Battery Low			

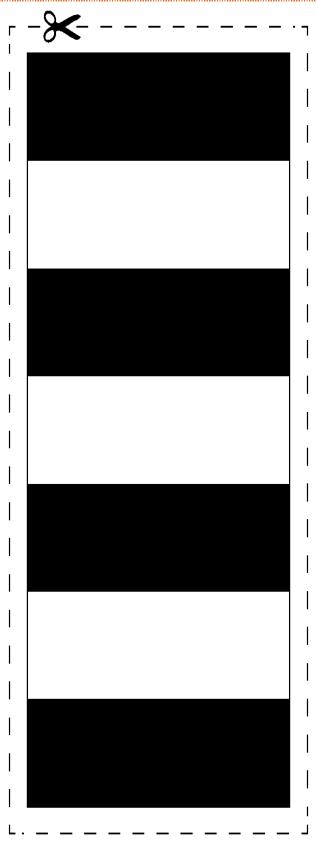
NOTE: Represents Warning notification and may require some action by user.

E.3 Faults

Code	Fault Listing	
200	No Faults	
201	System Fault	
202	2 ADC Fault	
203	203 Thermal Printhead UP	
204	Ribbon Fault	
205	Top Of Form Fault	
206	206 Stock (Paper) Fault	
207	07 Cutter Fault	
208	Verifier Fault	
209	Ribbon-Saver Fault	
210	Positioning Fault	
211	Thermal Printhead Fault	
212	DMA (SPI) Data Transfer to TPH Fault	
213	Print-Engine Fault	
214	Motor-Too-Hot Fault	
215	TPH-Too-Dirty Fault	
216	6 Scanner Fault	
217	Present-Sensor Fault	
218	TPH-DOT-Failure Fault	
219	Radio-Frequency-ID Fault	
220	Label-Rewinder Fault	
221	Feed-Clear Fault	
222	Close Thermal Printhead Latch Fault	
223	Invalid-Data Fault	
224	802.11 (WIFI) Radio Fault	
225	(Bluetooth [®]) Radio Fault	
226	Battery Fault	
227	Battery-Charger Fault	
228	No-Battery Fault	

NOTE: User Interaction required to restore printing. Shut down or restart the printer when error codes above are displayed.

F.1 Reflective Media-Calibration Label



RLe Series rugged label printers

product guide for resellers





by Honeywell

do datamax o'neil

Sector Sector





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Introduction

About Datamax-O'Neil

Datamax-O'Neil is a global provider of premier stationary and portable thermal printers, and quality supplies and parts to assure optimum performance.



For nearly four decades, we've worked closely with our customers to develop solutions that improve their businesses. With an unwavering commitment to unparalleled customer care, Datamax-O'Neil is headquartered in Orlando, FL, and maintains key facilities in California, Illinois and France, as well as sales, service, technical support and channel partner offices around the world. Since 1977, Datamax-O'Neil has earned a reputation for consistent reliability, fueled by dependable printers, dependable people and high-quality printer supplies.

Product Introduction

Datamax-O'Neil introduces its new RL3e / RL4e Portal Printers, enhanced with new features to better meet today's fast-paced and operational challenges of the retail, manufacturing and transportation and logistics environments. These 3- and 4-inch ultra-rugged and durable printers incorporate high-performance features that improve productivity and make work easier: faster speeds, more memory, longer battery life, and the tremendously easy ability to integrate, use and maintain. Technology advances include:



- Enhanced wireless functionality with 802.11 A/B.G/N
- Bluetooth 4.0+LE Dual mode and TDMA WiFi/Bluetooth co-existence
- Full suite of printer language emulation support
- Remote management software
- Android and Windows based O/S compatibility

With improved design and technology, the RLe Series models are the perfect printers to improve customer service and enhance operational efficiencies, especially in demanding environments.



Rugged/Reliable

Setting the Standard

Choosing the right printer is critical to the success of any application. For harsh warehouse environments you need a printer that's reliable and rugged enough to absorb every day knocks and bumps and still print clear, accurate labels the first time - every time. We test our printers in the most punishing environments to ensure their long-term reliability. The RLe Series was tested using military MIL-STD 810F procedures, requiring the printer to operate after being dropped on all corners, edges and faces for a total of 26 consecutive times. The RLe series represents one of a select few portable label printers to pass the MIL-STD 810F test from a height of 6 feet (1.8m) onto solid concrete at extreme cold and hot temperatures.

Introduction

ROI of Ruggedness

When comparing printers and calculating their total cost, it is important to include the cost associated with supporting products that are not designed for use in rugged environments. These include purchasing extended warranties, costs to support a larger spare printer pool, loss of productivity, shipping and handling, and cost of IT support to reinstall repaired units back into the field.

Easy

Easy to Use

Nobody likes to reload media, but we've made it so easy you can do it with one hand. We've also included an easy-to-read LCD screen with a simple user interface menu, buttons that are easy to use and a peel and present mechanism for quicker label application. These features are not just easy to use but also mean less downtime and higher productivity.

Easy to Deploy and Integrate

The RLe Series comes standard with popular language emulations that allow you to easily replace existing printers in the workplace. The printer is also compatible with most popular Operating Systems and Device Management tools while offering optional wireless 802.11 and Bluetooth connectivity.

Versatile and Customizable

Every application is different, so having the right accessory can be critical to maximizing productivity. The RLe Series can be worn on the hip, slung over the shoulder or mounted to a vehicle. The RLe series also has outstanding battery capacity with the RL3e capable of printing close to 850 labels and lasting 28 hours on a single charge. Likewise, the RL4e is capable of printing over 320 labels over a 16-hour period on a single charge. The printer can also be mounted on a fork truck and conveniently charged with existing DC power. The RLe Series offers enough charging, mounting and connectivity options to fit any environment.

Long-Lasting Value

Affordability and Low Ownership Costs

The RLe series is the most rugged and reliable portable label printer on the market. The RLe is competitively priced and in many cases at an MSRP price point below the competition. Datamax-O'Neil-designed media and battery packs are affordably priced with a complete set of qualified device management tools. The RLe series is not only affordable to purchase, its rugged design and enduring reliability will save money in unexpected repair and replacement costs.

2-Year Warranty

We're so confident in the quality and long-term reliability of the RLe Series that we include a 2-year warranty free of charge on our portable label printers. Coverage includes the case, electronics, plus all components except the printhead, batteries and accessories.





Why a portable barcode label printer?

A typical manufacturer's receiving dock is very much like any receiving dock in logistics, distribution and parcel forwarding applications. While they have all been customized to handle different volumes of packages, all applications generally require that an incoming package is received, identified and moved onto the next point of distribution or use. Receiving is generally automated with a scanner or imager, entering material into inventory in the MRP system. These materials are then identified and marked with a location where they will be temporarily stored or consumed in the manufacturing process.

In a typical environment that does not use portable bar-code label printing, the worker on the receiving dock has to scan the incoming package or pallet, sometimes break down the pallet, and then ask the MRP system to generate labels to identify the packages or pallets. At that time, the dock worker has to take time to go to the printer, pick up the labels and bring them back to the packages that are ready for storage or consumption. This time that the worker spends walking around is non-value-added activity (something that is called "Muda" by many lean manufacturing experts), and any number of distractions can get in the worker's way before the labeling is complete. These opportunities for distractions not only waste more time, but they can cause the wrong label to go onto the wrong package. The cost of mislabeling includes lost or redundant inventory, labor costs to track and correct packages that have been moved to the wrong location, and reduced customer satisfaction.

The wasted time of the operator, and the increased chances of mislabeling can easily cost any large or midsized company tens of thousands of dollars each year. You can see that your customers can easily pay for the investment of implementing a portable labeling solution, especially one that is designed to stand up to these tough applications, in less than a year. When you add the confidence that comes with implementing an RL4e, which is the only truly ultra-rugged portable printing solution, the only portable bar-code label printer with a two-year factory warranty, your customers' question goes from "If... ?", to "How many do I need and how soon can I get them?".

Combining Two Superior Core Competencies

Datamax-O'Neil has an unequalled reputation for designing **ultra rugged portable receipt printers**; however these products are targeted toward commercial and consumer delivery applications. Datamax-O'Neil also has a long history in producing **stationary label printers**, whose primary applications are to identify products and



freight within manufacturing, distribution and other transportation industries. You know that the physical and data ecosystems in portable receipt printing and stationary barcode labeling environments are quite different, but now these two core strengths are combined to help traditional stationary bar code printer customers become more efficient with an ultra rugged portable bar code label printer.

The RLe Series uniquely address the needs of the market by exceeding their competition's capabilities to endure the rough physical treatment expected in these user environments. Surpassing anything available on the market, the RLe Series prints reliably even after a series of 26 grueling drops at a variety of extreme temperatures! The "know how" that can only come from years of barcode label printer integration experience also positions the RLe Series for easy integration into automated data acquisition and printing systems.

Partner Benefits

Your success is important to us. When designing a new printer, we keep the needs of you, our Partners, in mind and incorporate features and elements that provide you with a competitive edge, or make your job easier and more profitable. Here are some of those benefits.



Costs You Less

When you pay less for the printer you have more room to negotiate when you're in a tough, price-based negotiation. The RLe Series costs you less, but is more rugged and offers more features.

Free 2-year Warranty

Our 2-year warranty gives you a competitive edge plus we offer a full array of service options for those customers who want even more coverage. Zebra only offers 1 year on the printer and 6 months on the printhead!

Easy Integration

The RLe Series will keep your integration costs to a minimum, and keep your customers happy. We offer a range of emulations that are

unmatched. Auto-detect DPL, ZPL II,[™] CPCL, IPL,[®] XML, EZ Print and line command languages are where we start. We continue by having compatibility with many of today's most popular ERP systems. The RLe Series stores forms from SAP, drops into XML environments for Oracle, and passes compatibility testing with Manhattan Associates software.

Easy Configuration

We're here to help. Having access to the global Datamax-O'Neil technical support network gives you a very experienced team of technicians ready to guide you through unique label printing applications. NETira[™] CT is a easy to navigate configuration tool that was created for the RL Series Printers, and will continue to be rolled out across the entire Datamax-O'Neil line of stationary and portable printers.

Datamax-O'Neil Reliability

Reduce your customer complaint calls. You know your customers will be happy with the quality and reliably of a printer from Datamax-O'Neil.

Increase Your Total Sale

Customers expect you to provide a complete solution including all the accessories and supplies. The RL3e / RL4e Portal Printers offer a full selection of cables, chargers, carrying and mounting options that are tested and guaranteed to work with the printer. Datamax-O'Neil also manufactures its own line of competitively-priced, certified media and printer supplies. Selling supplies and media are an easy way to boost your bottom line.

Applications for the RLe Series

These are just a few of the most typical applications where the RLe Series has excelled in pre-release field tests. While you may find many other useful applications for this ultra-rugged printer, the RLe Series has already proven itself to be a cost saving solution in the following environments:

Warehousing & Distribution

Receiving and Location Labels

When items are received, if they cannot be immediately used on an assembly line, they have to be assigned to a location in the warehouse. Part numbers, quantities, vendors, stocking locations, date codes and lot numbers are just a few of the bits of information that have to be readily available and clear so that the manufacturing process can move forward in an error free and efficient manner. When the label that identifies this information needs to be put on, the dock operator has to unload the pallet, and then travel to a printer that is located at the end of the loading dock. This is a waste of the operator's time. The operator has to go back and forth, pick up the label, put the label on, and then take the item back to the warehouse. On the other hand, in this environment, **if the operator is wearing the printer or the printer is attached to a forklift, then the operator can print labels as soon as items have been identified on the pallet – as soon as the pallet is touched. The operator spends less time going back and forth to the stationary printer, and efficiency is increased.**



The perfect opportunity to reduce errors is when an operator first touches the pallet. Any one of a million things can happen on a loading dock. When stock is pulled off the truck and the worker goes to the printer to pick up a label, he or she may run into a buddy and chat about weekend football or what happened at a child's birthday party; or, a call may come in to do something else that's work related. Any of these distractions can lead to labeling errors. If this occurs, items may go to the wrong place in the warehouse, or – worse – outbound items may get shipped to the wrong destination. Mobile printing greatly reduces the likelihood of such errors and their associated costs, which can drive costs up by 15%.

Put simply, warehouse operations are intrinsically labor-intensive, which often leads to errors and inefficiencies. By empowering printing at the point-of-use, mobile printers speed time to completion and improve compliance. This change can significantly improve most typical warehouse processes.

Work in Process (WIP, or Put-Away) Labels

Inherent delays in the fixed-printer model – routing to and from the printer, time spent at the printer per se – have had a negative effect on put-away. Using mobile printers within integrated environments that include mobile printers, wireless networks, and shared databases can significantly increase efficiency over an architecture that utilizes stationary devices located near, but not at the point where the work actually happens. Specifically, an integrated system empowers personnel to initiate label requests by entering data into a handheld computer that transmits the data to the company's ERP system over a wireless LAN. After the ERP system receives the transmission and updates inventory, information required to create the appropriate label or labels is sent back to the handheld for mobile printing.

Industries and Applications



Picking Applications

Since picking is essentially the opposite of put away, mobile printers can provide this function with similar time and cost savings. By enabling operators to pick multiple orders simultaneously and within a very small footprint, mobile printers drive down empty transit time and drive up productivity. The printers are used to create barcode or RFID labels for each individual item; these are subsequently scanned to speed the sorting of items for shipment.

Shipping Labels

When a manufacturing process is finished, personnel can use the mobile printer to create a label for the finished goods; or, warehouses and distribution centers can use mobile printers to manage ship-to-order requirements. Workers can use labels and scanning to verify the pick/pack of all items necessary to complete an order, eliminating the need to identify and label final assemblies.

The processing of ship-to-order requests can be improved by labeling items with an order code to associate them with a specific customer during picking or packing. When the order finishes, a mobile printer creates the shipping label, ensuring accuracy in packing and shipping.



Retail

In many retail environments, workers travel to and from a central location to pick up "batch printed" labels and shelf tags. While this method works, it also creates wasted movement and potential labeling errors. **The RLe Series eliminates the danger of "label mix up" by printing labels at the point of application**. And, since workers aren't wasting time traveling to a central location, retail applications are far more efficient and productive.



Transportation & Logistics and Parcel Delivery



Cross-docking Location Indicator Labels

By minimizing steps for personnel, mobile printing optimizes the crossdocking procedures used at a trans-shipment point to save time and labor in moving goods from an inbound vehicle to an outbound vehicle. Staff equipped with mobile devices can receive inbound shipments, log them into the warehouse management or inventory control systems with a mobile computer or handheld device, and then use a mobile printer to create labels with the appropriate cross-docking information. Doing this at the point of use speeds the process while improving accuracy.



Accessories •••

Accessories

The RLe Series comes complete with many of the accessories needed to make installations go smoothly, especially environments already served by portable printers. The following items have been designed or specified by the same team that brought you our ultra-rugged printer, so you can be assured that the accessories will work right the first time. Like the printer that was specified to endure, they will stand the test of extreme use in abusive environments.



RAM Mount Compatible Adapter







Double Bay Battery Charger





Vehicle Power Cable Kit

ncluded with each RLe Series printer: (1) battery and (1) swivel belt clip required • • •			
AC Adapter	AC Adapter available with US, UK, Australian, Swiss or Euro plugs (sold separately)		
recommended • • •			
Serial Cables	DB9 F cables for connecting to a laptop or desktop computer		
USB Cable	USB download cable (mini B to USB-A)		
Cleaning Cards & Kits	Use of cleaning cards is recommended to extend the life of the printhead		
optional • • •			
RAM Mount™ Compatible Adapter	Keeps the printer secure yet easily accessible on a forklift. Includes adapter plate and 1-1/2" ball. Other parts are available from RAM Mount.		
Voltage Converter	12-60V DC/DC power adapter		
Multiple Unit Charging Adapter	Allows you to charge (4) RLe Series printers or (4) 2 bay battery chargers at once, requires a high capacity AC Adapter (included). Available in US, UK and Euro Plugs.		
Spare Battery	Lithium-Ion, 14.8V, 2200 mAh		
Double Bay Battery Charger	2-bay battery charger keeps additional batteries charged and ready for use		
Multi-Bay RLe Charger	Configurable charging station capable of charging multiple units or combination of units and batteries. (Cables and high capacity charger included).		
Vehicle Power Cable Kit, 10'	Charge your printer from a vehicle's fuse box Extension cables available in 3', 6', and 10' lengths for existing installations		
IP54 Soft Case	Protects your printer from environmental elements such as dust and moisture; meets IP54 test standards		
Cigarette Lighter Adapter	Allows you to charge the printer from the vehicle cigarette lighter. (Either 12ν or 24ν input models available).		
Swivel Mount Belt Loop	Velcro loop fastens comfortably and securely around the belt; keeps the printer secure yet swivels for comfort while bending over or getting in and out of vehicles		
Hand Strap & Shoulder Strap	Choose either a hand or shoulder strap for maximum comfort and flexibility		

Features and Benefits: Retailers, Manufacturers, Distributors

The RLe Series is ready to add value to manufacturers and distributors by improving the way they identify and move goods and packages within their organization and as they receive from and ship to others. Here's how:

Rugged and Reliable

With uncompromising standards, the RLe Series endures even the most punishing environments, and passes the MIL-STD 810F series of drop testing requirements. The RLe Series continues to print reliably after 26 consecutive drops from 6 foot./1.8m to concrete, even at extreme temperature conditions.

Complete Line of Accessories

The RLe Series comes complete with many different ways to charge the printer or its batteries. Mounting accessories make physical integration onto fork trucks and vehicles easy, and for maximum flexibility, we offer four options for wearing the printer.

Easy to Integrate

The printers are embedded with many mature language emulators, offering "drop-in" compatibility with DPL, ZPL II,[™] CPCL, IPL[®] and XML. The product is also "ready-to-go" into the most popular WMS

Great Battery Power

The RLe Series has one 2250 mA-h Lithium-Ion rechargeable battery. And, because it runs at 14.8 Volts, the RL4e is able to continuously operate for over 16 hours in a Wi-Fi application while printing 320 (4'x6" 100mm x 150mm) labels. The RL3e will print over 850 3"x1" (76.2 x 25.4 mm) labels when operating eight continuous hours.

Easy to Use

The LCD tells operators just what they need to know. The printer's large capacity media holder can be easily reloaded with one hand in just seconds.

Complete Line of Media and Supplies

Our Certified Label Supplies ensure optimum, trouble-free performance from the RLe Series and guarantees

the highest quality print output and image stability.

Two-Year Warranty

The RLe Series comes with the industry's only two-year standard warranty – twice that of the competition!

Product Specifications

physical characteristics •••

- Dimensions:
- **RL3e**: 5.6" w x 7.6" h x 3.2" d (142 x 193 x 81 mm) - **RL4e**: 6.5" w x 7.9" h x 3.2" d
- (166 x 200 x 81 mm)
- Weight (printer only):
- **RL3e**: 1.95 lb. (0.88 kg) - **RL4e**: 2.16 lb. (0.98 kg)
- Drop specifications:
- 6 ft. (1.8 m)
- User interface:
- 128x64 LCD display with white LED backlighting
 Four (4) button user interface
 - Four (4) button user interface

user environment

- Operating temperature:
 -4° to 122°F (-20° to 50°C)
- Storage temperatures:
- -40° to 140°F (-40° to 60°C) • Charging temperatures:
- 41° to 104°F (5° to 40°C)Relative humidity range:
- 10% RH to 90% RH non-condensing • ESD protection:
- 8kV Air/ 4kV Contact

print technology

- Printhead:
 - Direct thermal
 - 203 dots per inch (8 dots per mm)
- Print width:
- **RL3e**: 2.8" (72 mm) - **RL4e**: 4.125" (105 mm)
- Print mechanism speed:
- Upt to 4" per second (102 mm per second)¹

memory •••

• 64MB RAM / 128MB Flash

media

- Media type:
 - **RL3e**: 1.00"- 3.125" (26 79 mm)
- **RL4e**: 2.00"-4.12" (51 105 mm)
- Linered and linerless* labels with black mark or gap sensing
- External fanfold or roll supply
- Maximum roll capacity:
- 2.65" (67 mm) O.D. - 0.75" (19 mm) I.D. core
- Media thickness:
- 2 mil to 6.5 mil
- For optimum print quality and printer performance, use Certified Datamax-O'Neil supplies.

* for use in RLe Series printers equipped with linerless option only

communication •••

- Serial:
- RS232, up to 460.8 kbps
- USB:
 - 2.0 (full speed-12 mbps)

- Bluetooth®:
 - Bluetooth[®] 4.0 + LE Dual Radio Mode (Q2 2015)
 Serial port profile
- Security Modes 1-4
- Encryption 1-3e
- Bluetooth[®] Smart Ready
- Bluetooth Smart Ready
 802.11 a/b/g/n Option:
 - Network standard: IEEE 802.11 a/b/g/n and Bluetooth[®] with Dual Mode Radio
 - Wireless access modes: Infrastructure and ad-hoc
 - anu au-nuc

- Security Protocols:						
	WEP WPA WPA2					
Modes	PSK/Enterprise					
Security/ Encryption	64/128 TKIP/RC4 CCMP/AES					
Authentication	LEAP, EAP-PEAP, EAP-FAST, EAP-TTLS, EAP-LEAP					

- Internet Protocols Supported: UDP/TCP, DHCP BootP, FTP, FTPS, SFTP, TFTP, Telnet, LDP, SNMP
- Remote and Auto Update features Supported
- 802.11i

power source

- · Battery:
- 14.8V Lithium-ion, 2200 mAh (33 W-h)DC inputs:
 - External DC jack, 11-15V, built-in spike and surge protection with Battery Management
 External charge contacts, 11-15V, built-in spike and surge protection
- Recharging: 4 6 hours
- RL4e Endurance: Prints over 320 4"x6" (100x150 mm) labels when operating 16 continuous hours on an 802.11 network
- RL3e Endurance; Prints over 850 3"x1" labels (76x152mm) when operating for 28 consecutive hours on an 802.11 network

agency approvals

- FCC 15 Class B, EN55022 Class B, EN55024, IEC 60950-1 2nd edition, EAC - Customs Union, CCC, SRRC
- Safety: UL/cUL, CE.
- Contact your sales representative for a complete list of approvals.

warranty

- Two years (including platen roller, printhead and installed options) when used with approved supplies
- Contact sales representative for extended warranty options

barcodes/fonts/graphics

• Scalable Fonts:

 CG Triumvirate[™] Bold Condensed, CG Triumvirate & CG Times with Cyrillic, Greek, Arabic and Hebrew character support from Monotype Imaging
 Standard fonts:

5.5CPI, 7.2CPI, 10.2 CPI, 10.7CPI, 18.5CPI 20.4CPI, 22.6CPI, 34.0CPI, 0CR-A, 0CR-B (additional fonts available)

- Downloadable font types:
- True Type, Bitmap
- Character sets:
 - Unicode/UTF8 support; 50 international symbol sets, Big 5, JIS and Shift JIS and more
- Optional characters: - Arabic, Greek, Hebrew, Unicode subset including Latin
- Asian (including Big 5, Simplified Chinese, Kanji, Hangul and Shift JIS); additional international characters available
- Barcodes:
- Linear: Codabar, Code 3 of 9, Code 93, Code 128, EAN-8, EAN13, Interleaved 2 of 5, HIBC, PLESSEY, MSI/Plessey, UCC/EAN-128, UPC-A, UPC-E, UPC 2 and 5 digit addendums, Postnet, Telepen, UPS MaxiCode, FIM, USD-8
 2D Symbologies: PDF417, Aztec, QR Code,
- GS1, Datamatrix, TLC39, MicroPDF417 Graphics:
- Supports storage of graphics/logos in Flash memory and transient "print once" graphic

software/firmware

- NETira[™] Configuration Tool complete printer set-up utility
- NETira[™] MŚ Menu Scripting
- Control Language Compatibility: - Ez-Print, DPL, ZPL II[®], CPCL, IPL[™], XML (limited)
- Device Management Compatibility:
 NETira[™] Remote Management: Monitor and manage printers
- NETira MD: Mobile Device Management Utility for Smart Mobile Devices.
- NETira[™] Connector (CA): Access AirWatch[®] Mobile Device Management Console

- BarTender[®], Niceware/NiceLabel and others ERP Systems Compatibility:

- Microsoft Windows Desktop up to Windows 8,

Single Bay Charger for use with external charge

¹ Speed rating under normal optimal operating conditions. Performance may

vary based on temperature of operating environment and label file density.

- Android 2.1 and above , iOS 5,6, & 7

- C++, C Sharp, Java, Active X Control

Lua and JSON Scripting Language

Windows 8 Store, Windows Mobile &

- Wavelink[®] Avalanche MC
- Network Compatibility

SAP, Oracle

Windows CF

other tools

AirWatch[®] support

options

Dual Battery Charger Configurable Multi-Bay Charger

Multi Unit Charging Adaptor

IP-54 Environmental Case

Cigarette Ligher Vehicle Charger

Linerless

•

contacts

- TCP-IP based networks

Software development kit:

- AS/400 (LPD) based networks
- Drivers:
- Microsoft Windows[®] XP/Vista/7& 8 NETira[™] LD – Label Design Software

Competitive Overview

Datamax-O'Neil RL4e vs. Zebra QLN420

In comparison to the Zebra QLN-420, the RL4e offers important features and performance advantages:

- Wireless communications, Bluetooth 4.0 connectivity and customization of menus and programming for 4-button control with LCD screen lead an expanded feature set
- Higher-rated drop height for added security against unintentional printer drops
- Standard 2-year warranty coverage makes it one of the longest standard coverage periods in the industry





	Datamax-O'Neil RL4e	Zebra QLN420	
Physical			
Dimensions (mm)	6.5" x 7.9" x 3.2" (166 x 200 x 81)	6.5" x 7.4" x 3.25" (165 x 187 x 83)	
Weight (with Battery)	2.6 lbs. (1180 gms)	2.45 lbs. (1110 gms)	
IP Rating	IP54 (with optional case)	IP54 (with optional case)	
Drop Specification	6 ft (1.8m)	5 ft (1.5 m)	
Communications			
Serial	RS232 Standard, USB	RS232 Serial, USB	
802.11	802.11 a/b/g/n Dual Radio (Optional)	802.11 a/b/g/n Dual Radio (Optional)	
Bluetooth	4.0 (Optional)	3.0 (Optional)	
Print Technology			
Printhead	Direct thermal, 203 dots per inch, (8 dots per mm)	Direct thermal. 203 dots per inch, (8 dots per mm)	
Print Width	4.12" (105 mm)	4.09" (104 mm)	
Print Speed	4" (102mm) per second	4" (102mm) per second	
Media Specifications			
Capacity	2.65" (67 mm) max roll OD - approx. 124 4" x 6" labels per roll	2.60" (66 mm) max roll diameter approx. 104 4"x6" labels per roll	
ID Core	0.75" (19 mm)	0.75" (19 mm) or 1.38" (35 mm)	
Width	2-4.12" (51-105 mm)	2-4.4" (51-112 mm)	
Memory			
Flash	128MB	256MB	
RAM	64MB	128MB	
User Interface			
Display	LCD Backlit Display 128 x 64 White LED Backlighting	LCD Display 240 x 128	
Controls	4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators	2-Button -Power, Media feed, plus 5 way nav soft keys	
Battery			
Туре	Lithium Ion	Lithium Ion	
Smart Battery Features	Included	Included	
Capacity	14.8 V, 2200 mA-H (33 W-H)	7.4 V, 5.0 A-H	
Warranty			
Printer	2 years	1 year	
Printhead	2 years (when used with approved media)	6 months	
Options			
Magnetic Card Reader	Not Available	Not Available	
Linerless	Option	Option	
4-Bay Printer Charger	Option - Configurable	Option	
Battery	Included	Included	

Competitive Overview

Datamax-O'Neil RL4e vs. Intermec PB50

The RL4e provides major advantages over the Intermec PB50:

- Ruggedized ergonomic design with key enhanced features like 802.11 a/b/g/n dual radio, Bluetooth 4.0 LE, and expanded memory
- Higher rated drop height offers added security against unintentional printer drops
- Standard 2-year warranty coverage for one of the longest standard coverage periods in the industry





	Datamax-O'Neil RL4e		
Physical	· · · · ·		
Dimensions (mm)	6.5" x 7.9" x 3.2" (166 x 200 x 81)	6.3" x 6.9" x 3.1" (160 x 174.5 x 78.8)	
Weight (with Battery)	2.6 lbs. (1180 gms)	2.62 lbs. (1189 gms)	
IP Rating	IP54 (with optional case)	IP54	
Drop Specification	6 ft (1.8m)	5 ft (1.5 m)	
Communications	· · · · ·		
Serial, USB	RS232 Standard, USB	RS232 Serial, USB	
802.11	802.11 a/b/g/n Dual Radio (Optional)	802.11 b/g (Optional)	
Bluetooth	4.0 (Optional)	2.0 Class 1 (Optional)	
Print Technology			
Printhead	Direct thermal, 203 dots per inch, (8 dots per mm)	Direct thermal. 203 dots per inch, (8 dots per mm)	
Print Width	4.12" (105 mm)	4.25" (108 mm)	
Print Speed	4" (102mm) per second	4" (102mm) per second	
Media Specifications			
Capacity	2.65" (67 mm) max roll OD - approx. 124 4" x 6" labels per roll	2.65" (67 mm) max roll diameter	
ID Core	0.75" (19 mm)	0.75" (19 mm) / 0.4" (10.2mm)	
Width	2-4.12" (51-105 mm)	2-4.4" (49-112 mm)	
Memory			
Flash	128MB	16MB	
RAM	64MB	64MB	
User Interface			
Display	LCD Backlit Display 128 x 64 White LED Backlighting	LCD Display	
Controls	4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators	4-Button - Standby, Media Feed, Setup, Info	
Battery			
Туре	Lithium Ion	Lithium Ion	
Smart Battery Features	Included	Not Available	
Capacity	14.8 V, 2200 mA-H (33 W-H)	14.8 V, 2200 mA-H (33 W-H)	
Warranty			
Printer	2 years	1 year	
Printhead	2 years (when used with approved media)	1 year	
Options			
Magnetic Card Reader	Not Available	Not Available	
Linerless	Option	Option	
4-Bay Printer Charger	Option - Configurable	Not Available	
Battery		Sold Seperately	

Competitive Overview

Datamax-O'Neil RL4e vs. Sato MB400i

Equipped with major feature sets, the RL4e provides outstanding and performance value compared to the Sato MB400i:

- Standard features to meet today's user demands, including 802.11 a/b/g/n dual radio, Bluetooth 4.0 LE options along with a customizable 4 button control with LED backlit screen
- Expanded RAM and Flash memory for greater ability to load fonts, graphics and barcodes to the printer
- Higher rated drop height offers added security against unintentional printer drops





	Datamax-O'Neil RL4e	
Physical		
Dimensions (mm)	6.5" x 7.9" x 3.2" (166 x 200 x 81)	6.7" x 5.3" x 3.0", 8.0" x 6.5" x 3.9" with Rubber Boots (165 x 187 x 83)
Weight (with Battery)	2.6 lbs. (1180 gms)	2.0 lbs. (910 gms) with Rubber Boots
IP Rating	IP54 (with optional case)	Rating not listed
Drop Specification	6 ft (1.8m)	5 ft (1.5 m)
Communications		
Serial, USB	RS232 Standard, USB	RS232 Serial, USB
802.11	802.11 a/b/g/n Dual Radio (Optional)	802.11 b/g (Optional)
Bluetooth	4.0 (Optional)	1.1 (Optional)
Print Technology	· · · · · ·	
Printhead	Direct thermal, 203 dots per inch, (8 dots per mm)	Direct thermal. 203 dots per inch, (8 dots per mm)
Print Width	4.12" (105 mm)	4.09" (104 mm)
Print Speed	4" (102mm) per second	4" (102mm) per second
Media Specifications		
Capacity	2.65" (67 mm) max roll OD - approx. 124 4" x 6" labels per roll	2.63" (67 mm) max roll diameter
ID Core	0.75" (19 mm)	0.75" (19mm), 1.0" (25 mm)
Width	2-4.12" (51-105 mm)	2-4.3" (50-111 mm)
Memory		
Flash	128MB	4MB
RAM	64MB	2MB
User Interface		
Display	LCD Backlit Display 128 x 64 White LED Backlighting	LCD Display
Controls	4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators	3-Button -Power, Media feed, Print
Battery		
Туре	Lithium Ion	Lithium Ion
Smart Battery Features	Included	Not Available
Capacity	14.8 V, 2200 mA-H (33 W-H)	14.8 V, 1700 mA-H
Warranty		
Printer	2 years	1 year
Printhead	2 years (when used with approved media)	1 year
Options		
Magnetic Card Reader	Not Available	Not Available
Linerless	Option	Option
4-Bay Printer Charger	Option - Configurable	Not Available
Battery		Included
	in the debug	moladoa

Datamax-O'Neil RL4e vs. Toshiba (TEC) B-EP4DL

The RL4e has some significant advantages over the Toshiba (TEC) B-EP4DL:

- 15% higher drop distance specification for greater durability under heavy use
- Backlit display standard
- Expanded RAM and Flash memory for greater ability to load fonts, graphics and barcodes to the printer
- 2-year warranty vs. 1-year printer and printhead warranty





	Datamax-O'Neil RL4e		
Physical			
Dimensions (mm)	6.5" x 7.9" x 3.2" (166 x 200 x 81)	5.7" x 5.9" x 3.0" (145 x 150 x 75)	
Weight (with Battery)	2.6 lbs. (1180 gms)	1.9 lbs. (860 gms) with Rubber Boots	
IP Rating	IP54 (with optional case)	IP54 (with optional case)	
Drop Specification	6 ft (1.8m)	5.2 ft (1.6 m)	
Communications			
Serial, USB	RS232 Standard, USB	RS232 Serial, USB	
802.11	802.11 a/b/g/n Dual Radio (Optional)	802.11 b/g (Optional)	
Bluetooth	4.0 (Optional)	2.1 Optional	
Print Technology	· · · ·		
Printhead	Direct thermal, 203 dots per inch, (8 dots per mm)	Direct thermal. 203 dots per inch, (8 dots per mm)	
Print Width	4.12" (105 mm)	Not Listed	
Print Speed	4" (102mm) per second	4" (105mm) per second	
Media Specifications			
Capacity	2.65" (67 mm) max roll OD - approx. 124 4" x 6" labels per roll	2.68" (68 mm) max roll diameter	
ID Core	0.75" (19 mm)	Not listed	
Width	2-4.12" (51-105 mm)	4.53" (115mm)	
Memory			
Flash	128MB	8MB	
RAM	64MB	16MB	
User Interface			
Display	LCD Backlit Display 128 x 64 White LED Backlighting	LCD Backlit Display (Wireless model Only)	
Controls	4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators	2-Button -Power, Media feed, Pause with on-screen indicators	
Battery			
Туре	Lithium Ion	Lithium Ion	
Smart Battery Features	Included	Not Available	
Capacity	14.8 V, 2200 mA-H (33 W-H)	14.8 V, 2600 mA-H	
Warranty			
Printer	2 years	1 year	
Printhead	2 years (when used with approved media)	1 year	
Options			
Magnetic Card Reader	Not Available	Not Available	
Linerless	Option	Option	
4-Bay Printer Charger	Option - Configurable	Not Available	
Battery	Included	Included	

Datamax-O'Neil RL4e vs. TSC Alpha 4L

The RL4e excels over the TSC Alpha 4L in some very important areas:

- 20% higher drop distance specification for greater durability under heavy use
- Bluetooth 4.0 vs. Bluetooth 2.0 availability
- Optional 4-bay printer charger

	Datamax-O'Neil RL4e	TSC Alpha 4L
Physical Dimensions (mm)	6.5" x 7.9" x 3.2" (166 x 200 x 81)	6.3" x 7.54" x 3.11" (160 x 191.6 x 79)
Weight (with Battery) IP Rating	2.6 lbs. (1180 gms) IP54 (with optional case)	2.43 lbs. (1100 gms) IP54 (with optional case)
Drop Specification	6 ft (1.8m)	5.0 ft (1.5 m)
Communications	0 11 (1.011)	0.0 it (1.5 iii)
Serial. USB	RS232 Standard, USB	RS232 Serial, USB
802.11	802.11 a/b/g/n Dual Radio (Optional)	802.11 b/g/n (Optional)
Bluetooth	4.0 (Optional)	2.1 Optional
Print Technology		
Printhead	Direct thermal, 203 dots per inch, (8 dots per mm)	Direct thermal. 203 dots per inch, (8 dots per mm)
Print Width	4.12" (105 mm)	4.12" (104 mm)
Print Speed	4" (102mm) per second	4" (102mm) per second
Media Specifications		
Capacity	2.65" (67 mm) max roll OD - approx. 124 4" x 6" labels per roll	2.65" (67.3 mm) max roll diameter
ID Core	0.75" (19 mm)	0.5" to 1" (12.7-25.4mm)
Width	2-4.12" (51-105 mm)	2-4.4" (51-112 mm)
Memory		
Flash	128MB	16MB - Upgradeable 4GB via Micro SD
RAM	64MB	32MB
User Interface		
Display	LCD Backlit Display 128 x 64 White LED Backlighting	LCD Backlit Display 128 x 64 (Optional)
Controls	4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators	2 buttons (Power, Feed) & 6 LED indicators (Printer, Battery, Wireless status) OPTIONAL: 4 buttons & 2 LED indicators with LCD option.
Battery		
Туре	Lithium Ion	Lithium Ion
Smart Battery Features	Included	Not Available
Capacity	14.8 V, 2200 mA-H (33 W-H)	14.8 V, 5800 mA-H
Warranty		
Printer	2 years 2 year	
Printhead	2 years (when used with approved media)	1 year
Options		
Magnetic Card Reader	Not Available Not Available	
Linerless	Option Option	
4-Bay Printer Charger	Option - Configurable	Not Available
Battery	Included	Included

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Datamax-O'Neil RL4e vs. Brother RJ4030 / RJ4031

The RL4e provides important features compared to the Brother RJ4030 / RJ4031:

- Bluetooth 4.0 vs. Bluetooth 2.0 availability
- LCD backlit display
- 2.65" vs. 2.28" max roll diameter
- 128MB vs. 16MB flash memory for greater ability to load fonts, graphics and barcodes to the printer
- 26% higher battery capacity





	Datamax-O'Neil RL4e		
Physical			
Dimensions (mm)	6.5" x 7.9" x 3.2" (166 x 200 x 81)	6.38" x 6.93" x 3.03" (162 x 176 x 77)	
Weight (with Battery)	2.6 lbs. (1180 gms)	1.87 lbs. (850 gms)	
IP Rating	IP54 (with optional case)	IP54	
Drop Specification	6 ft (1.8m)	6 ft (1.8m)	
Communications	· · ·		
Serial, USB	RS232 Standard, USB	RS232 Serial, USB	
802.11	802.11 a/b/g/n Dual Radio (Optional)	802.11 b/g/n (Optional)	
Bluetooth	4.0 (Optional)	2.0 Optional	
Print Technology			
Printhead	Direct thermal, 203 dots per inch, (8 dots per mm)	Direct thermal. 203 dots per inch, (8 dots per mm)	
Print Width	4.12" (105 mm)	4.09" (104 mm)	
Print Speed	4" (102mm) per second	5" per second	
Media Specifications	· · ·		
Capacity	2.65" (67 mm) max roll OD - approx. 124 4" x 6" labels per roll	2.28" (58 mm) max roll diameter	
ID Core	0.75" (19 mm)	Not listed	
Width	2-4.12" (51-105 mm)	2-4.64" (51-118 mm)	
Memory			
Flash	128MB	16MB	
RAM	64MB	32MB	
User Interface			
Display	LCD Backlit Display 128 x 64 White LED Backlighting	Not Available	
Controls	4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators	3-Button -Power, Media feed, with 4 LEDs	
Battery			
Туре	Lithium Ion	Lithium Ion	
Smart Battery Features	Included	Not Available	
Capacity		14.4 V 1800 mA-H	
oupuolo	14.8 V, 2200 mA-H (33 W-H)	14.4 V 1800 mA-H	
Warranty	14.8 V, 2200 mA-H (33 W-H)	14.4 V 1800 mA-H	
Warranty	14.8 V, 2200 mA-H (33 W-H) 2 years	14.4 V 1800 mA-H 2 year	
Warranty Printer			
	2 years	2 year	
Warranty Printer Printhead Options	2 years	2 year	
Warranty Printer Printhead	2 years 2 years (when used with approved media)	2 year 2 year	
Warranty Printer Printhead Options Magnetic Card Reader	2 years 2 years (when used with approved media) Not Available	2 year 2 year Optional	

Datamax-O'Neil RL4e vs. Printronix ML4

Here are some of the advantages of the RL4e over the Printronix ML4:

- 20% higher drop distance specification for greater durability under heavy use
- Bluetooth 4.0 vs. Bluetooth 2.1 availability
- 128MB vs. 16MB flash memory standard for greater ability to load fonts, graphics and barcodes to the printer
- 2-year warranty vs. 1-year printer and printhead warranty





Dimensions (mm) 6.5* x 7.9 x 3.2* (166 x 200 x 81) 6.3* x 7.54* x 3.1* (160 x 191.6 x 79) Weight (with Battery) 2.6 lbs. (1180 gms) 2.43 lbs. (1100 gms) IPR Atting IPF54 (with optional case) IPF54 (with optional case) IPF54 (with optional case) Drop Specification 6 ft (1.8m) 5.0 ft (1.5 m) Communications Serial, USB RS232 Standard, USB RS232 Serial, USB S02.11 802.11 ab/b/g/n Dual Radio (Optional) 802.11 bl/g/n (Optional) Bluetooth 4.0 (Optional) 2.1 optional Print Technology 2.1 optional 2.1 optional Print Width 4.12* (105 mm) 4.12* (104 mm) Print Width 4.12* (105 mm) 4.12* (104 mm) Print Width 2.45* (67 mm) max roll OD 2.65* (67.3 mm) max roll diameter Capacity 2.65* (67 mm) max roll OD 2.65* (67.3 mm) max roll diameter Dice 0.75* (19 mm) 0.5* to 1* (12.7-25.4mm) Width 2-4.1* (51-105 mm) 2-4.4* (51-112 mm) Memory Example 16MB - Upgradeable 4GB via Micro SD RAM 64MB 32MB <				
Dimensions (mm) 6.5" x 7.9" x 3.2" (166 x 200 x 81) 6.3" x 7.54" x 3.11" (160 x 191.6 x 79) Weight (with Battery) 2.6 1ts, (1180 gms) 2.43 tbs, (1100 gms) P Rating IP54 (with optional case) IP54 (with optional case) Drop Specification 6 ft (1.8m) 5.0 ft (1.5 m) Communications 85232 Standard, USB R5232 Standard, USB Serial, USB R5232 Standard, USB 802.11 ab/g/n Qual Radio (Optional) Bluetoch 4.0 (Optional) 2.0 Optional Print Technology Print Technolog 2.1 Optional Print Width 4.12" (105 mm) 4.12" (104 mm) Print Speed 4" (102mm) per second 4" (102mm) per second Media Specifications 2.65" (67 rm) max roll OD 2.65" (67.3 mm) max roll diameter ID Core 0.75" (19 mm) 0.5" to 1" (12.7-25.4 mm) Width 2.4.12" (151-105 mm) 2.4.4" (51-112 mm) Memory 1128 MB 16MB - Upgradeable 4GB via Micro SD RAM 64MB 32MB User Interface 128 MB 16MB - Upgradeable 4GB via Micro SD Radio con-screen indicators	Datamax-O'Neil RL4e		Printronix ML4	
Weight (with Battery) 2.6 ibs. (1180 gms) 2.43 ibs. (1100 gms) IP Rating IP54 (with optional case) IP54 (with optional case) Drop Specification 6 tht (1.8m) 5.0 ft (1.5 m) Communications RS232 Standard, USB RS232 Serial, USB Serial, USB RS232 Standard, USB RS232 Serial, USB 802.11 802.11 a/b/g/n Dual Radio (Optional) 802.11 b/g/n (Optional) Bluetooth 4.0 (Optional) 2.1 Optional Print Technology Direct thermal, 203 dots per inch, (8 dots per mm) (8 dots per mm) Print Speed 4* (102mm) per second 4* (102mm) per second Media Specifications 2.65° (67.3 mm) max roll OD 2.65° (67.3 mm) max roll domenter Capacity 2.65° (67.3 mm) max roll OD 2.65° (67.3 mm) max roll diameter ID Core 0.75° (19 mm) 0.5° to 1° (12.7-25.4mm) Width 2-4.12° (51-105 mm) 2.46° (51.312 mm) Memory 128 M & for ables per roll 2.65° (67.3 mm) max roll diameter ID Core 0.75° (19 mm) 0.5° to 1° (12.7-25.4mm) Width 2-4.12° (51-105 mm) 2.46° (62.3 mm) max roll diameter ID Core 0.75° (19 mm) 0.5° to 1° (12.7-25.4mm) Width 2-4.12° (51-105 mm) 2.46° (61.112 mm) Memory 128 M	Physical	,		
IP Rating IP54 (with optional case) IP54 (with optional case) Drop Specification 6 tt (1.8m) 5.0 ft (1.5 m) Communications Serial, USB RS232 Standard, USB RS232 Serial, USB Social, USB RS232 Standard, USB RS232 Serial, USB Social, USB RS232 Standard, USB RS232 Serial, USB Social, USB RS232 Serial, USB RS232 Serial, USB Social, USB RS232 Serial, USB RS232 Serial, USB Social, USB RS232 Serial, USB RS232 Serial, USB Bluetoch 4.0 (Optional) 2.1 Optional Print Technology Print Technology Direct thermal, 203 dots per inch, (8 dots per rmn) Direct thermal, 203 dots per inch, (8 dots per rmn) Direct thermal, 203 dots per inch, (8 dots per rmn) Direct thermal, 203 dots per inch, (8 dots per rmn) Direct thermal, 203 dots per inch, (8 dots per rmn) Direct thermal, 203 dots per inch, (8 dots per rmn) Direct thermal, 203 dots per inch, (8 dots per rmn) Direct thermal, 203 dots per inch, (8 dots per rmn) Direct thermal, 203 dots per inch, (8 dots per rmn) Direct thermal, 203 dots per inch, (8 dots per rmn) Direct thermal, 203 dots per inch, (8 dots per rmn) Direct thermal, 203 dots per inch, (8 dots per rmn) Direct thermal, 203 dots per inch, (8 dots per rmn) Direct thermal, 205 to 1* (10.7,-25	Dimensions (mm) 6.5" x 7.9" x 3.2" (166 x 200		6.3" x 7.54" x 3.11" (160 x 191.6 x 79)	
Drop Specification 6 ft (1.8m) 5.0 ft (1.5 m) Communications Serial, USB RS232 Standard, USB RS232 Standard, USB RS232 Standard, USB Serial, USB 802.11 a/b/g/n Dual Radio (Optional) 802.11 b/g/n (Optional) 802.11 b/g/n (Optional) Bluetooth 4.0 (Optional) 2.1 Optional 2.1 Optional Print Technology Direct thermal, 203 dots per inch, (8 dots per mm) (B dots per mm) (B dots per mm) Print Width 4.12' (105 mm) 4.12' (104 mm) 4.12' (104 mm) Print Speed 4'' (102mm) per second 4'' (102mm) per second 2.65'' (67.3 mm) max roll diameter Capacity 2.65' (19 mm) 0.5' to 1'' (12.7-25.4mm) 0.5' to 1'' (12.7-25.4mm) Width 2-4.12'' (19 mm) 0.5' to 1'' (12.7-25.4mm) 0.5' to 1'' (12.7-25.4mm) Width 2-4.12'' (51-105 mm) 2.4'' (6' (6'.3 mm) max roll diameter 0.5' to 1'' (12.7-25.4mm) Width 2-4.12'' (51-105 mm) 2.4'' (10' HITM) 2.4'' (10' HITM) Wenterface 128MB 16MB - Upgradeable 4GB via Micro SD RAM 64MB 32MB Controls	Weight (with Battery)	2.6 lbs. (1180 gms)	2.43 lbs. (1100 gms)	
Communications RS232 Standard, USB RS232 Serial, USB Serial, USB 802.11 al/s/g/n Dual Radio (Optional) 802.11 b/g/n (Optional) Bluetooth 4.0 (Optional) 802.11 b/g/n (Optional) Print Technology Direct thermal, 203 dots per inch, (8 dots per mm) 0.1 Optional) Print Technology Direct thermal, 203 dots per inch, (8 dots per mm) 0.1 Optional) Print Width 4.12' (105 mm) 4.12' (104 mm) Print Speed 4' (102mm) per second 4' (102mm) per second Media Specifications 2.65' (67 mm) max roll OD - approx. 124 4' x 6' labels per roll 2.65' (67.3 mm) max roll diameter ID Core 0.75' (19 mm) 0.5' to 1' (12.7-25.4mm) Width 2.4.12' (105 mm) 2.44' (31-112 mm) Memory 128MB 16MB - Upgradeable 4GB via Micro SD RAM 64MB 32MB User Interface LCD Backlit Display 126 5' k 128 Display 128 x 64 White LED Backlighting 2.55 k 128 Controls 4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators 4 buttons (Power, Fered, Menu, Info) & 2 LED Type Lithium Ion	IP Rating	IP54 (with optional case)	IP54 (with optional case)	
Serial, USB RS232 Standard, USB RS232 Serial, USB 802.11 802.11 a/b/g/n Dual Radio (Optional) 802.11 b/g/n (Optional) Bluetooth 4.0 (Optional) 802.11 b/g/n (Optional) Print Technology Direct thermal, 203 dots per inch, (B dots per rmm) Direct thermal, 203 dots per inch, (B dots per rmm) Direct thermal, 203 dots per inch, (B dots per rmm) Print Width 4.12* (105 mm) 4.12* (104 mm) Print Speed 4* (102mm) per second 4* (102mm) per second Media Specifications 2.65* (67 mm) max roll OD - approx. 124 4* x 6* labels per roll 2.65* (67.3 mm) max roll diameter ID Core 0.75* (19 mm) 0.5* to 1* (12.7-25.4mm) Width 2-4.12* (51-105 mm) 2-4.4* (51-112 mm) Memory Elsh 16MB - Upgradeable 4GB via Micro SD RAM 64MB 32MB User Interface LCD Backlit Display 256 x 128 Controls 4-Buttor - Power, Media Feed, Menu, Wireless Radio & on-screen indicators 4 buttons (Power, Feed, Menu, Info) & 2 LED indicators (Power, Feed, Menu, Info) & 2 LED Battery Lthuim Ion Lthuim Ion Ithuim Ion Smart Battery Features	Drop Specification	6 ft (1.8m)	5.0 ft (1.5 m)	
802.11 802.11 a/b/g/n Dual Radio (Optional) 802.11 b/g/n (Optional) Bluetooth 4.0 (Optional) 2.1 Optional Print Technology Direct thermal, 203 dots per inch, (8 dots per mm) Direct thermal. 203 dots per inch, (8 dots per mm) Direct thermal. 203 dots per inch, (8 dots per mm) Print Width 4.12* (105 mm) 4.12* (104 mm) Print Speed 4* (102mm) per second 4* (102mm) per second Media Specifications 2.65* (67 mm) max roll OD - approx. 124 4* x 6* labels per roll 2.65* (67.3 mm) max roll diameter ID Core 0.75* (19 mm) 0.5* to 1* (12.7-25.4mm) Width 2-4.12* (51-105 mm) 2-4.4* (51-112 mm) Memory Elsah 128MB 16MB - Upgradeable 4GB via Micro SD RAM 64MB 32MB User Interface UCD Backlit Display LCD Backlit Display Display 128 x 64 White LED Backlighting 256 x 128 Controls 4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators 4 buttons (Power, Feed, Menu, Info) & 2 LED indicators (Power, Feed, Menu, Info) & 2 LED Start Battery Features Included Not Available Capacity Yape Lithium Ion Lithium Ion Lithium Ion Smart Battery Features Included Not Available Capacity 14.8 V, 2200 mA-H	Communications			
Bluetooth 4.0 (Optional) 2.1 Optional Print Technology Print Technology Printhead Direct thermal, 203 dots per inch, (8 dots per mm) Direct thermal, 203 dots per inch, (8 dots per mm) Print Width 4.12" (105 mm) 4.12" (104 mm) Print Speed 4" (102mm) per second 4" (102mm) per second Media Specifications 2.65" (67 mm) max roll OD - approx. 124 4" x 6" labels per roll 2.65" (67.3 mm) max roll diameter ID Core 0.75" (19 mm) 0.5" to 1" (12.7-25.4mm) Width 2-4.12" (51-105 mm) 2.4.4" (51-112 mm) Memory 158MB 16MB - Upgradeable 4GB via Micro SD RAM 64MB 32MB User Interface UCD Backlit Display LCD Backlit Display Display 128 K 64 White LED Backlighting 4 buttons (Power, Feed, Menu, Info) & 2 LED indicators (Power, Feed, Menu, Info) & 2 LED indicators (Power, Feror) wO -Screen indicators Battery 128 N 2200 mA-H (33 W-H) 14 8 V, 5800 mA-H Waranty 2 years (when used with approved media) 1 year Printer 2 years (when used with approved media) 1 year Printhead 2 years (when used with approved media) 1 year	Serial, USB	RS232 Standard, USB	RS232 Serial, USB	
Print Technology Direct thermal, 203 dots per inch, (8 dots per mm) Direct thermal, 203 dots per inch, (8 dots per mm) Print Width 4.12° (105 mm) 4.12° (104 mm) Print Speed 4° (102mm) per second 4° (102mm) per second Media Specifications 2.65° (67 mm) max roll OD - approx. 124 4° x 6° labels per roll 2.65° (67.3 mm) max roll diameter ID Core 0.75° (19 mm) 0.5° to 1° (12.7-25.4mm) Width 2-4.12° (51-105 mm) 2.44° (51-112 mm) Memory 128MB 16MB - Upgradeable 4GB via Micro SD RAM Flash 128MB 16MB - Upgradeable 4GB via Micro SD RAM 64MB 32MB User Interface UCD Backlit Display 1CD Backlit Display Display 128 x 64 White LED Backlighting 256 x 128 Controls 4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators 4 buttons (Power, Feed, Menu, Info) & 2 LED indicators (Power, Feed, Menu, Info) & 2 LED Type Lithium Ion Lithium Ion Smart Battery 1 14.8 V, 2200 mA-H (33 W-H) 14.8 V, 5800 mA-H Waranty 2 years (when used with approved media) 1 year	802.11	802.11 a/b/g/n Dual Radio (Optional)	802.11 b/g/n (Optional)	
DescriptionDirect thermal, 203 dots per inch, (8 dots per mm)Direct thermal, 203 dots per inch, (8 dots per mm)PrintheadMetal Specifications4.12° (104 mm)Print Speed4° (102mm) per second4' (102mm) per secondMedia Specifications2.65° (67 mm) max roll OD - approx. 124 4° x 6° labels per roll2.65° (67.3 mm) max roll diameterID Core0.75° (19 mm)0.5° to 1° (12.7-25.4mm)Width2-4.12° (51-105 mm)2.4.4° (51-112 mm)Memory128MB16MB - Upgradeable 4GB via Micro SDFlash128MB16MB - Upgradeable 4GB via Micro SDRAM64MB32MBUser Interface128 X 64 White LED Backlit Display 128 x 64 White LED Backlit Display 256 x 128Display1.4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicatorsBattery1.4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicatorsTypeLithium IonLithium IonSmart Battery FeaturesIncludedNot AvailableCapacity14.8 V, 2200 mA-H (33 W-H)14.8 V, 5800 mA-HWarantyPrinter2 years (when used with approved media)1 yearOptionOption0ption1	Bluetooth	4.0 (Optional)	2.1 Optional	
Printilead(8 dots per mm)(8 dots per mm)Print Midth4.12" (105 mm)4.12" (104 mm)Print Speed4" (102mm) per second4" (102mm) per secondMedia Specifications2.65" (67 mm) max roll OD - approx. 124 4" x 6" labels per roll2.65" (67.3 mm) max roll diameterID Core0.75" (19 mm)0.5" to 1" (12.7-25.4mm)Width2-4.12" (51-105 mm)2.4.4" (51-112 mm)MemoryFlash128MB16MB - Upgradeable 4GB via Micro SDRAM64MB32MBUser InterfaceUser InterfaceDisplay128 x 64 White LED Backlighting Radio & on-screen indicators4 buttons (Power, Feed, Menu, Info) & 2 LED indicators (Power, Feed, Menu, Info) & 2 LED indicator	Print Technology	· · · · ·		
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Media Specifications 2.65" (67 mm) max roll OD - approx. 124 4" x 6" labels per roll 2.65* (67.3 mm) max roll diameter ID Core 0.75* (19 mm) 0.5* to 1" (12.7-25.4mm) Width 2-4.12" (51-105 mm) 2-4.4* (51-112 mm) Memory 2-4.12" (51-105 mm) 2-4.4* (51-112 mm) Flash 128MB 16MB - Upgradeable 4GB via Micro SD RAM 64MB 32MB User Interface 2.56 x 128 Display LCD Backlit Display 128 x 64 White LED Backlighting LCD Backlit Display 2.56 x 128 Controls 4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators 4 buttons (Power, Ferd, Menu, Info) & 2 LED indicators (Power, Error) w/ On-Screen indicators Battery Lithium Ion Lithium Ion Smart Battery Features Included Not Available Capacity 14.8 V, 2200 mA-H (33 W-H) 14.8 V, 5800 mA-H Waranty 2 years 1 year Printer 2 years (when used with approved media) 1 year Options Magnetic Card Reader Not Available Linerless Option Option	Print Width	4.12" (105 mm)	4.12" (104 mm)	
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Capacity- approx. 124 4* x 6* labels per roll2.65* (67.3 mm) max roll diameterID Core0.75* (19 mm)0.5* to 1* (12.7-25.4mm)Width2-4.12* (51-105 mm)2-4.4* (51-112 mm)MemoryEFlash128MB16MB - Upgradeable 4GB via Micro SDRAM64MB32MBUser InterfaceUser InterfaceDisplayLCD Backlit Display 128 x 64 White LED BacklightingLCD Backlit Display 256 x 128Controls4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators4 buttons (Power, Feed, Menu, Info) & 2 LED indicators (Power, Feed, Menu, Info) & 2 LED indicators (Power, Fron' w/ On-Screen indicatorsBatteryLithium IonLithium Ion Smart Battery FeaturesPrinter14.8 V, 2200 mA-H (33 W-H)14.8 V, 5800 mA-HWarrantyPrinter2 years1 yearPrinter2 years (when used with approved media)1 yearOptionsMagnetic Card ReaderNot Available1 yearLinerlessOptionOptionNot Available	Media Specifications			
Width2-4.12' (51-105 mm)2-4.4' (51-112 mm)MemoryFlash128MB16MB - Upgradeable 4GB via Micro SDRAM64MB32MBUser InterfaceLCD Backlit Display 128 x 64 White LED BacklightingLCD Backlit Display 256 x 128Controls4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators4 buttons (Power, Feed, Menu, Info) & 2 LED indicators (Power, Ferd, Menu, Info) & 4 with able CapacityTypeLithium IonLithium IonSmart Battery FeaturesIncludedNot AvailableCapacity14.8 V, 2200 mA-H (33 W-H)14.8 V, 5800 mA-HWarranty22yearsPrinter <td< td=""><td>Capacity</td><td></td><td>2.65" (67.3 mm) max roll diameter</td></td<>	Capacity		2.65" (67.3 mm) max roll diameter	
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Flash128MB16MB - Upgradeable 4GB via Micro SDRAM64MB32MBUser Interface128 x 64 White LED Backlit Display 128 x 64 White LED Backlighting1CD Backlit Display 256 x 128Controls4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators4 buttons (Power, Feed, Menu, Info) & 2 LED indicators (Power, Error) w/ On-Screen indicatorsBattery128 x 64 White LED Backlighting4 buttons (Power, Feed, Menu, Info) & 2 LED indicators (Power, Error) w/ On-Screen indicatorsBattery128 x 64 White LED Backlighting4 buttons (Power, Feed, Menu, Info) & 2 LED indicators (Power, Error) w/ On-Screen indicatorsBattery128 x 64 White LED Backlighting4 buttons (Power, Feed, Menu, Info) & 2 LED indicators (Power, Error) w/ On-Screen indicatorsBattery128 x 64 White LED Backlighting4 buttons (Power, Feed, Menu, Info) & 2 LED indicators (Power, Error) w/ On-Screen indicatorsBattery128 x 64 White LED Backlighting4 buttons (Power, Error) w/ On-Screen indicatorsBattery114.8 V, 2200 mA-H (33 W-H)14.8 V, 5800 mA-HWarranty14.8 V, 2200 mA-H (33 W-H)14.8 V, 5800 mA-HWarranty2 years (when used with approved media)1 yearPrinthead2 years (when used with approved media)1 yearOptions111Magnetic Card ReaderNot AvailableNot AvailableLinerlessOption0ption	Width	2-4.12" (51-105 mm)	2-4.4" (51-112 mm)	
RAM64MB32MBUser InterfaceDisplayLCD Backlit Display 128 x 64 White LED BacklightingLCD Backlit Display 256 x 128Controls4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators4 buttons (Power, Feed, Menu, Info) & 2 LED indicators (Power, Error) w/ On-Screen indicatorsBatteryLithium IonLithium IonTypeLithium IonLithium IonSmart Battery FeaturesIncludedNot AvailableCapacity14.8 V, 2200 mA-H (33 W-H)14.8 V, 5800 mA-HWarrantyPrinter2 years1 yearPrinter2 years (when used with approved media)1 yearOptionsMagnetic Card ReaderNot AvailableNot AvailableLinerlessOptionOption	Memory			
User InterfaceDisplayLCD Backlit Display 128 x 64 White LED BacklightingLCD Backlit Display 256 x 128Controls4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators4 buttons (Power, Feed, Menu, Info) & 2 LED indicators (Power, Error) w/ On-Screen indicatorsBatteryTypeLithium IonLithium IonSmart Battery FeaturesIncludedNot AvailableCapacity14.8 V, 2200 mA-H (33 W-H)14.8 V, 5800 mA-HWarrantyPrinter2 years1 yearPrinter2 years (when used with approved media)1 yearOptionsMagnetic Card ReaderNot AvailableNot AvailableLinerlessOptionOption	Flash	128MB	16MB - Upgradeable 4GB via Micro SD	
DisplayLCD Backlit Display 128 x 64 White LED BacklightingLCD Backlit Display 256 x 128Controls4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators4 buttons (Power, Feed, Menu, Info) & 2 LED indicators (Power, Error) w/ On-Screen indicatorsBatteryTypeLithium IonSmart Battery FeaturesIncludedNot AvailableCapacity14.8 V, 2200 mA-H (33 W-H)14.8 V, 5800 mA-HWarrantyPrinter2 years1 yearPrinthead2 years (when used with approved media)1 yearOptionsLinerlessOptionOption	RAM	64MB	32MB	
Display128 x 64 White LED Backlighting256 x 128Controls4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators4 buttons (Power, Feed, Menu, Info) & 2 LED indicators (Power, Error) w/ On-Screen indicatorsBatteryExternal4 buttons (Power, Feed, Menu, Info) & 2 LED indicators (Power, Error) w/ On-Screen indicatorsBatteryExternalIncluded4 buttons (Power, Error) w/ On-Screen indicatorsBatteryExternalIncludedNot AvailableTypeLithium IonLithium IonSmart Battery FeaturesIncludedNot AvailableCapacity14.8 V, 2200 mA-H (33 W-H)14.8 V, 5800 mA-HWarrantyPrinter2 years1 yearPrinter2 years (when used with approved media)1 yearOptionsMagnetic Card ReaderNot AvailableNot AvailableLinerlessOptionOption	User Interface			
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TypeLithium IonLithium IonSmart Battery FeaturesIncludedNot AvailableCapacity14.8 V, 2200 mA-H (33 W-H)14.8 V, 5800 mA-HWarrantyPrinter2 years1 yearPrinthead2 years (when used with approved media)1 yearOptionsMagnetic Card ReaderNot AvailableNot AvailableLinerlessOptionOption	Controls		4 buttons (Power, Feed, Menu, Info) & 2 LED indicators (Power, Error) w/ On-Screen indicators	
Smart Battery Features Included Not Available Capacity 14.8 V, 2200 mA-H (33 W-H) 14.8 V, 5800 mA-H Warranty Printer 2 years 1 year Printhead 2 years (when used with approved media) 1 year Options Magnetic Card Reader Not Available Not Available Linerless Option Option	Battery			
Capacity 14.8 V, 2200 mA-H (33 W-H) 14.8 V, 5800 mA-H Warranty Printer 2 years 1 year Printhead 2 years (when used with approved media) 1 year Options Vot Available Not Available Linerless Option	Туре	Lithium Ion	Lithium Ion	
Warranty 2 years 1 year Printer 2 years (when used with approved media) 1 year Options 0 1 year Magnetic Card Reader Not Available Not Available Linerless Option 0ption	Smart Battery Features	Included	Not Available	
Printer 2 years 1 year Printhead 2 years (when used with approved media) 1 year Options	Capacity	14.8 V, 2200 mA-H (33 W-H)	14.8 V, 5800 mA-H	
Printhead 2 years (when used with approved media) 1 year Options Image: Card Reader Not Available Linerless Option Option	Warranty			
Options Not Available Magnetic Card Reader Not Available Linerless Option	Printer	2 years	1 year	
Magnetic Card Reader Not Available Not Available Linerless Option Option	Printhead	2 years (when used with approved media)	1 year	
Linerless Option Option	Options			
	Magnetic Card Reader	Not Available	Not Available	
	Linerless	Option	Option	
	4-Bay Printer Charger	Ontion - Configurable		

Datamax-O'Neil RL3e vs. Zebra QLN320

The RL3e provides significant advantages over the Zebra QLN 320:

- 20% higher drop distance specification for greater durability under heavy use
- 2-year warranty vs. 1-year printer warranty
- 2-year warranty vs. 6-month printerhead warranty
- 80% higher battery capacity
- Optional 4-bay printer charger





	Datamax-O'Neil RL3e		
Physical		1	
Dimensions (mm)	5.6" x 7.6" x 3.2" (142 x 193 x 81)"	4.6" x 6.8" x 3.3" (117 x 173 x 84)	
Weight (with Battery)	2.4 lbs. (1089 gms)	1.6 lbs. (720 gms)	
IP Rating	IP54 (with optional case)	IP54 (with optional case)	
Drop Specification	6 ft (1.8m)	5 ft (1.5 m)	
Communications		<u>.</u>	
Serial, USB	RS232 Standard, USB	RS232 Serial, USB	
802.11	802.11 a/b/g/n Dual Radio (Optional)	802.11 a/b/g/n Dual Radio (Optional)	
Bluetooth	4.0 (Optional)	3.0 (Optional)	
Print Technology			
Printhead	Direct thermal, 203 dots per inch, (8 dots per mm)	Direct thermal. 203 dots per inch, (8 dots per mm)	
Print Width	2.8" (72 mm)	2.9" (72 mm)	
Print Speed	4" (102mm) per second	4" (100mm) per second	
Media Specifications			
Capacity	2.65" (67 mm) max roll OD - approx. 124 3" x 6" labels per roll	2.60" (66 mm) max roll diameter - approx. 104 4"x 6" labels per roll	
ID Core	0.75" (19 mm)	0.75" (19 mm) or 1.38" (35 mm)	
Width	1-3.12" (26-79 mm)	1-3.12" (25-79 mm)	
Memory			
Flash	128MB	256MB	
RAM	64MB	128MB	
User Interface			
Display	LCD Backlit Display 128 x 64 White LED Backlighting	LCD Display 240 x 128	
Controls	4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators	2-Button -Power, Media feed, plus 5 way nav soft keys	
Battery			
Туре	Lithium Ion	Lithium Ion	
Smart Battery Features	Included	Included	
Capacity	14.8 V, 2200 mA-H (33 W-H)	7.4 V, 2450 mA-H (18.1 W-H)	
Warranty			
Printer	2 years	1 year	
Printhead	2 years (when used with approved media)	6 months	
Options		-	
Magnetic Card Reader	Not Available Not Available		
Magnetic Caru Reader			
Linerless	Option	Option	
5	Option Option - Configurable	Option Option	

Datamax-O'Neil RL3e vs. Intermec PB32

Compared to the Intermec PB32, the RL3e has important features and performance advantages:

- 20% higher drop distance specification for greater durability under heavy use
- 46% wider print width
- 128MB vs. 16MB flash memory standard for greater ability to load fonts, graphics and barcodes to the printer
- 2-year warranty vs. 1-year warranty for both printer and printhead
- 91% higher battery capacity
- Optional 4-bay printer charger





Datamax-O'Neil RL3e Intermec PB32 Physical 5.6" x 7.6" x 3.2" (142 x 193 x 81)" 5.0" x 7.2" x 3.2" (127 x 182 x 81) Dimensions (mm) Weight (with Battery) 2.4 lbs. (1089 gms) 1.83 lbs. (828 gms) IP Rating IP54 (with optional case) IP54 **Drop Specification** 6 ft (1.8m) 5 ft (1.5 m) Communications Serial, USB RS232 Standard, USB RS232 Serial, USB 802.11 a/b/g/n Dual Radio (Optional) 802.11 802.11 b/g (Optional) Bluetooth 4.0 (Optional) 2.0 Class 1 (Optional) **Print Technology** Direct thermal, 203 dots per inch, Direct thermal. 203 dots per inch, Printhead (8 dots per mm) (8 dots per mm) Print Width 2.8" (72 mm) 2.8" (72 mm) 4" (102mm) per second 4" (102mm) per second Print Speed Media Specifications 2.65" (67 mm) max roll OD 2.65" (67 mm) max roll diameter Capacity approx. 124 3" x 6" labels per roll ID Core 0.75" (19 mm) / 0.4" (10.2mm) 0.75" (19 mm) Width 1-3.12" (26-79 mm) 1.2-3.3" (48-83.8 mm) Memory Flash 128MB 16MB RAM 64MB 64MB **User Interface** LCD Backlit Display Display LCD Display 128 x 64 White LED Backlighting 4-Button - Power, Media Feed, Menu, Wireless Controls 4-Button - Standby, Media Feed, Setup, Info Radio & on-screen indicators Battery Туре Lithium Ion Lithium Ion Smart Battery Features Included Not Available 14.8 V, 2200 mA-H (33 W-H) 7.4 V, 2300 mA-H Capacity Warranty Printer 2 years 1 year Printhead 2 years (when used with approved media) 1 year Options Magnetic Card Reader Not Available Not Available Linerless Option Option 4-Bay Printer Charger **Option - Configurable** Not Available Included Battery Included

Datamax-O'Neil RL3e vs. Brother RJ3050 / RJ3150

The enhanced features of the RL3e are major benefits compared to the Brother RJ3050 /RJ3150:

- 50% greater drop distance specification (RJ3150)
- 27% wider print width
- 128MB vs. 32MB flash memory standard for greater ability to load fonts, graphics and barcodes to the printer
- 2-year warranty vs. 1-year warranty for both printer and printhead (RJ3050)
- Smart Battery with 26% higher capacity enabled with expanded choice of charging options
- Optional 4-bay printer charger



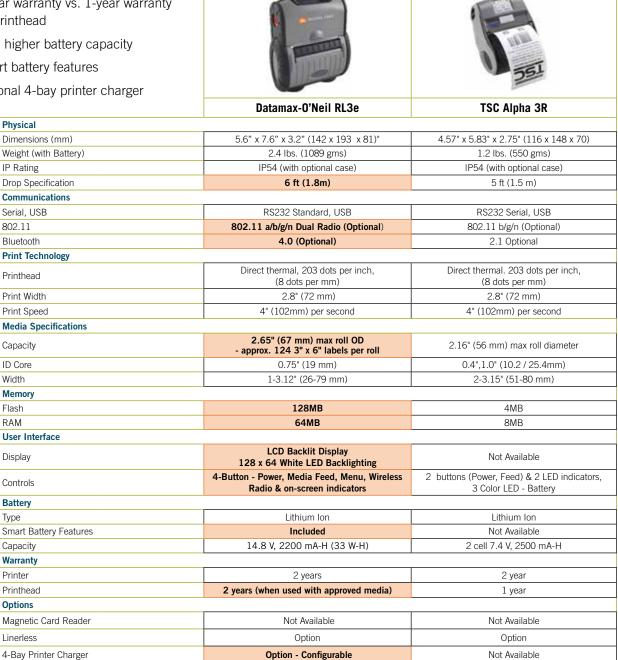


	Datamax-O'Neil RL3e	Brother RJ3050 / RJ3150	
Physical			
Dimensions (mm)	5.6" x 7.6" x 3.2" (142 x 193 x 81)"	4.4 x 7.32 x 3.16 / 4.5" x 7.44" x 3.23" (112 x 186 x 80) / 116 x 189 x 82)	
Weight (with Battery)	2.4 lbs. (1089 gms)	1.34 lbs (610 gms) / 1.43 lbs. (680 gms)	
IP Rating	IP54 (with optional case)	IP54	
Drop Specification	6 ft (1.8m)	4 ft (1.2m) / 6 ft (1.8m)	
Communications			
Serial, USB	RS232 Standard, USB	RS232 Serial, USB - 3150 model only	
802.11	802.11 a/b/g/n Dual Radio (Optional)	802.11 a/b/g/n Dual Radio (Optional)	
Bluetooth	4.0 (Optional)	Optional	
Print Technology			
Printhead	Direct thermal, 203 dots per inch, (8 dots per mm)	Direct thermal. 203 dots per inch, (8 dots per mm)	
Print Width	2.8" (72 mm)	2.8" (83 mm)	
Print Speed	4" (102mm) per second	5" (127mm) per second	
Media Specifications			
Capacity	2.65" (67 mm) max roll OD - approx. 124 3" x 6" labels per roll	2.6" (66 mm) max roll diameter	
ID Core	0.75" (19 mm)	0.5"(12.7mm), 1.0" (25.4)	
Width	1-3.12" (26-79 mm)	1-3.14" (25.4-80 mm)	
Memory			
Flash	128MB	32MB	
RAM	64MB	32MB	
User Interface			
Display	LCD Backlit Display 128 x 64 White LED Backlighting	Color LCD Display (3150 model Only)	
Controls	4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators	4 Button - 5 LED indicators (3050 model) 4 Button, 4 menu buttons, On screen indicators & Battery Charge LED.	
Battery			
Туре	Lithium Ion	Lithium Ion	
Smart Battery Features	Included	Not Available	
Capacity	14.8 V, 2200 mA-H (33 W-H)	14.4 V 1800 mA-H	
Warranty			
Printer	2 years	1 Yr / 2 Yrs	
Printhead	2 years (when used with approved media)	1 Yr / 2 Yrs	
Options			
Magnetic Card Reader	Not Available	Not Available	
Linerless	Option	Option	
Battery	Included	Included	
4-Bay Printer Charger	Option - Configurable	Not Available	

Datamax-O'Neil RL3e vs. TSC Alpha 3R

See the advantages and features of the RL3e compared to the TSC Alpha 3R:

- 20% greater drop distance specification
- Bluetooth 4.0 vs. Bluetooth 2.1 availability
- 46% wider print width
- 128MB vs. 4MB flash memory
- 2-year warranty vs. 1-year warranty for printhead
- 76% higher battery capacity
- Smart battery features
- Optional 4-bay printer charger



Certified Supplies

You can receive the same quality and reliability in our supplies that you have come to expect from our printer products. Choosing Datamax-O'Neil IQ Certified Supplies means that you're selecting supplies that have been



certified by our engineers for use in our printers. It's the key to extending the life of the thermal print head, minimizing downtime and maintaining optimal performance throughout the life of the printer.

A broad breadth of Datamax-O'Neil Certified Printer Supplies is available for the RLe Series. The ShopSmart Catalog lists supplies and a variety of readily available die cut and perforated liner labels, as well as a selection of liner-less labels.

Datamax-O'Neil Printer: RL3e

Direct Thermal Linered/Linerless Labels - 0.75" Core ID, 2.65" Roll OD

Direct Thermal Linered/Linerless Labels and Receipt Paper - ImagePro Labels - Standard with Permanent Adhesive

Part Number	Width x Length	Approx. LBS/CTN	Rolls/CTN	Labels/Roll
740854-912	2.0" x 1.0" Die Cut (0.125" gap) - PERM	14	50	645
740855-909	3.0" x 2.0" Die Cut (0.125" gap) - PERM	14	50	340
740855-202	*Linerless/REM 3.0" x 113'	33	30	N/A
740855-203	*Linerless/PERM 3.0" x 113'	33	30	N/A

Datamax-O'Neil Printer: RL4e

Direct Thermal Linered/LineRLeess Labels - 0.75" Core ID, 2.65" Roll OD

Direct Thermal Linered/Linerless Labels and Receipt Paper - ImagePro Labels - Standard with Permanent Adhesive

Part Number	Width x Length	Approx. LBS/CTN	Rolls/CTN	Labels/Roll
740854-914	4.0" x 2.0" Die Cut (0.125" gap) - PERM	15	50	370
740854-915	4.0" x 3.0" Die Cut (0.125" gap) - PERM	15	50	245
740854-916	4.0" x 4.0" Die Cut (0.125" gap) - PERM	15	50	185
740854-910	4.0" x 6.0" Die Cut (0.125" gap) - PERM	17	50	123
740854-202	*Linerless/REM 4.0" x 85'	33	30	N/A
740854-203	*Linerless/PERM 4.0" x 85'	33	30	N/A

*Must be used in linerless capable RL Series printers. PERM = Permanant Adhesive. Contact your sales representative for details.

Direct Thermal Receipt Paper - 0.75" Core ID. 2.65" Roll OD

		•••••••••••••••••••••••••••••••••••••••		
Part Number	Width x Length	Approx. LBS/CTN	Rolls/CTN	Labels/Roll
RL3e				
740855-102	Premium - 3.0" x 164' - Continuous	8	50	N/A
RL4e				
740854-102	Premium - 4.125" x 171' - Continuous	9	50	N/A

Cleaning Pens and Cards - For Adhesive Applications

A two-step process designed to remove adhesive residue and give the thermal printhead, rollers and paper path a thorough cleaning. Each step involves inserting a chemically saturated card into the paper path. Step one will remove adhesive residue. Step two will remove any chemical residue remaining from the Step one card as well as all dirt and other contaminates from the thermal printhead, rollers and paper path. Sold in carton quantities.

Part Number	Printer Models	Approx. LBS/CTN	Pens/Cards per CTN for Step 1 and Step 2
770189-000	RL3, RL3e, RL4, RL4e Label	10	2 Part Cleaning Pen

PC Software

Windows Drivers

The RLe Series has drivers for use on the latest Windows operating systems. The drivers allow the user to view and change printer settings from any Windows software application, simplifying the print process.

Printer Configuration Tool

NETira[™] Configuration Tool (NETira[™] CT) is a Windows-based configuration tool that provides easy setup and configuration for the RLe Series. The modern look and feel helps simplify printer setup with a single menu structure. Numerous option selections are available to give users quick access to communication setup, customizable default settings and printer diagnostics. NETira[™] CT will save significant time when configuring and deploying multiple printers giving operators time to focus on other business activities.

Label Designer

For small/medium business user applications that require simple label designs, Datamax-O'Neil offers NETira LD, a free out of the box label creation tool that is easy to use and quickly turns desktop printers into a labeling solution.

NETira MD and NETira CA (NETira Connector) Device Management Software

Wavelink Avalanche Enabled

Wavelink Avalanche Mobility Center[™] software is pre-loaded on wireless, 802.11-enabled RLe Series printers. Users of Wavelink can remotely monitor and configure the RLe Series wireless printers along with other wireless devices on the same network to provide extensive management functionalities that include centralized remote management, performance monitoring, software distribution and crucial device security.

NETira Tools

Compatible with today's leading enterprise mobile management utilities. Partnered with AirWatch[®], Infinite Skyze and QualSoft, providing flexability in device management support needed for today's dynamic mobile world.

Firmware and Emulations

Printer firmware is the printer's operating system that dictates how the printer runs and reacts to input. Check the Datamax-O'Neil website or with your local representative to find out about the full capabilities of the RLe Series firmware. The firmware controls printing, configuration, and emulations. Development is open sourced and updates are published regularly.

Printing

The printer's firmware controls every aspect of printing. Whether you are trying to print text, graphics, or barcodes, the firmware allows printing to be done quickly and efficiently. To get the best results, you should send printer commands to generate your printed output.

Printer Configuration

The printer firmware also controls how the printer is configured. Many software utilities provide a quick and easy method to change printer settings; however, the firmware has more functionality than what may be available in the configuration software. Refer to the printer programmer's guide for the full capabilities of the software.

Emulations

Emulation is the firmware's ability to communicate in another printer's command language. This allows for the easy replacement of another manufacturers product without the need for a software or driver change. The RLe Series are shipped with multiple printer languages allowing users flexibility to communicate in many different environments. The RLe Series supports:

- DPL Datamax-O'Neil printer language
- CPCL, EPL and ZPL II Zebra printer language
- IPL Intermec printer language
- XML Extensible Markup Language

Networks and ERPs

The RLe Series comes ready to be integrated into many of the existing ecosystems where portable bar-code label printing is at home – all without the need for special firmware upgrades!

- The RLe Series is ready to be dropped into TCP-IP Networks as well as those that require the LPD protocol (AS/400, etc.)
- RLe Series has the capability to work with many of the most popular ERP systems. It has already proven its ability to store forms from SAP, drop into XML environments for Oracle, or pass compatibility testing with Manhattan Associates software. The RLe Series will keep your integration costs to a minimum, and will virtually eliminate your risk of losing the trust of customers with an easy drop-in integration.

Updates

The current firmware version of your printer is listed in the self-test printout. Firmware can be updated by uploading the new firmware file to the printer. Detailed instructions for uploading are included with the firmware file. Development updates are always being made to improve performance and enhance or add features.

Certification	D-0 RL4e	D-0 RL3e
cUL	•	•
UL	•	•
CCC	•	•
SRRC	•	•
CE	•	•
FCC 15 Class B	•	•
EN55022 Class B	•	•
EN55024	•	•
IEC 60950-1 2nd edition	•	•
EAC-Customs Union	•	•



Service Options

Datamax-O'Neil now offers the most cost-effective product warranty programs to ensure that your businesscritical printing applications continue trouble free and without interruption – long after the original warranty period has ended. You also get the peace of mind in knowing that service and repair is coming from the manufacturer, who has the infrastructure to ensure you receive the very best service at the most competitive price. Our Extended Warranty Service Agreements have been designed with a consistent and simple structure, enabling you to select a program that best suits your needs. The following features are provided:

- Quick Response Times
- A Variety of Comprehensive Coverage Options
- A Broad Choice of Contract Duration Options
- Ease of Purchase and Registration
- Upgradable to Other Service Options

Obtaining an Extended Warranty is easy. At the time of purchase or at any time during the Standard Warranty period, an Extended Warranty can be purchased to add up to 4 years to your printer's coverage. Then, choose from one of 3 value-added options to accommodate your business needs:

- Priority with a 2-day turnaround on warranty repairs (standard warranty is 5-day turnaround).
- Printer Express a "hot swap" exchange through a managed pool of customer-owned inventory
- Comprehensive "no fault" comprehensive coverage

You can rest assured that printers covered by Datamax-O'Neil service options will continue to deliver top quality results for the duration of the agreement.

Warranty Service Procedures

A downloadable "Return Material Authorization (RMA)" form is available. It is necessary to obtain and print your RMA number clearly on your package before shipping.

Limited Warranty

Datamax-O'Neil warrants to Purchaser that under normal use and service, the RLe Series Printer, purchased hereunder shall be free from defects in material and workmanship for a period of 2 years from the date received. Expendable and/or consumable items or parts such as lamps, fuses, labels and ribbons are not covered under this warranty. This warranty does not cover equipment or parts that have been misused, altered, neglected, handled carelessly, or used for purposes other than those for which they were manufactured. This warranty also does not cover loss, damages resulting from accident, or damages resulting from unauthorized service.

Ordering a Printer

RL3e / RL4e Series

Rugged Portable Thermal 3" / 4" Label / Receipt Printers

Ordering Notes:

- RLe Printers include the following items:
- One (1) battery, One (1) swivel belt clip, and external charging contacts.
- Two batteries are highly recommended.
- Standard factory warranty period of two (2) years.
- <u>NOTE</u>: Power supply is not included and must be <u>ordered separately</u>. See AC Adapters / Chargers under the Peripheral and Accessories page for available options.



options.	R		- D	Р-	5	0			0	0		1	0
Printer Model								IJ					
RL3e - 3 in / 76 mm wide with USB and LCD		L3	- 64										
RL4e - 4 in / 102 mm wide with USB and LCD		L4											
Custom Kit													
Datamax-O'Neil Portable			D	Ρ									
RI Models													
Rie Models					5	- 11							
A/C Power (Autorange Supply) Configuration and Cord						4							
No Power Cord Supplied						0	18						
						-	- 1						
Special Media Handling Options													
None (with external paper slot capacity)							0						
Liner-less Media Capability							1	18					
Not applicable - Reserved for future use								-1					
Not applicable - Reserved for future use									0				
Not applicable - Reserved for future use									0				
Not Used													
Not Used										0			
Communication Intenface Ontions													
Communication Interface Options RS-232 and USB only (Serial)											0		
Serial and 802.11 a/b/g/n Dual Radio											3		
Serial and Bluetooth v4.0 (Coming Soon)											4		
Senar and Bidetooth V4.0 (Conning Soon)											4		
External Charging Contacts													
External contacts for charging												1	
Not Used													
Not Used													0

Printers

Common Configurations

RL3-DP-50000010

- RL3e, 3" Label/ Receipt Printer, 64MB/128MB, Serial/USB, E-Charge, LCD

RL3-DP-50100010

- RL3e, 3" Label/ Receipt Printer, Linerless, 64MB/128MB, Serial/USB, E-Charge, LCD

RL3-DP-50000310

- RL3e, 3" Label/ Receipt Printer,802.11/Bluetooth 4.0LE Dual Radio, 64MB/128MB, Serial/USB, E-Charge, LCD

RL3-DP-50100310

- RL3e, 3" Label/ Receipt Printer,802.11/Bluetooth 4.0LE Dual Radio, Linerless, 64MB/128MB, Serial/USB, E-Charge, LCD

RL4-DP-50000010

- RL4e, 4" Label/ Receipt Printer, 64MB/128MB, Serial/USB, E-Charge, LCD

RL4-DP-50100010

- RL4e, Linerless, Serial/USB, E-Charge

RL4-DP-50000310

- RL4e, 5" Label/ Receipt Printer,802.11/Bluetooth 4.0LE Dual Radio, Linerless, 64MB/128MB, Serial/USB, E-Charge, LCD

RL4-DP-50100310

-- RL4e, 4" Label/ Receipt Printer,802.11/Bluetooth 4.0LE Dual Radio, Linerless, 64MB/128MB, Serial/USB, E-Charge, LCD

NOTE: Not all options or configurations may be available seperately. Certain options may be required to be included with some configurations. Contact your Datamax O Neil Customer Service or your Sales Representative for more details

Ordering An Extended Warranty

D - WS - W Printer Model RL4e Printer S1 - S1 RL3e Printer S2 - - W				_ E		C	
Extended Wsrranty							
List as "W" always W							
Eutondod Warranty Tarm							
Extended Warranty Term No Extended Warranty Term Selected	0						
3 Years (Standard Warranty + 1 Year)	3	-					
5 Years (Standard Warranty + 3 Years)	5						
Value Add Priority Level							
List as always "P"		Р					
Pro Value Add Priority Term (Can only select this option if Printer Express is not selected)							
No Extended Warranty Term Selected			0				
2 Years (Duration of Standard Warranty)			2				
3 Years			3				
5 Years			5				
Value Add Printer Express Level (Cannot select this option if Pro Value is selected) List as always "E"				E			
Value Add Printer Express Term No Additional Printer Express Terms selected					0		
2 Years (Duration of Standard Warranty)					2		
3 Years					3		
5 Years					5		
Value Add Comprehensive Level							
List as always "C"						С	
Value Add Comprehensive Term							
No Additional Comprehensive terms selected							0
2 Years (Duration of Standard Warranty)							2
0.1/							3
3 Years 5 Years							5

Accessories and Peripherals

The RLe Series comes with a full complement of accessories, developed and ready for your specific application, and more are being added throughout constantly.

PART NUMBER	DESCRIPTION
AC Adapters - Battery Cha	irgers
220515-100	AC Adapter for Charging with U.S. plug
220516-100	AC Adapter for Charging with EU plug
220517-100	AC Adapter for Charging with UK plug
220521-100	AC Adapter for Charging with Swiss plug
220518-100	AC Adapter for Charging with AU plug
220282-000	DC/DC Voltage converter (12v-60v)
220207-200	Vehicle Charge Cable Kit, 10'/3m
510116-001	Cigarette Lighter Vehicle Power for Thermal Printers
220275-000	Battery Charging Cradle (2 bay)
550046-001	Spare Battery
220284-000	Multiple Unit Charging Adapter with Power Supply (1 to 4), US Plug
220285-000	Multiple Unit Charging Adapter with Power Supply (1 to 4), EU Plug
220286-000	Multiple Unit Charging Adapter with Power Supply (1 to 4), UK Plug
Multi-Bay Charger (Include	es High Capacity AC Adapter and Multi-Unit Charging Adapter for multi-unit models)
229028-000	Multi-Bay Charging Kit, RL series, 4-Upright Unit Depot Charger, US Plug
229029-000	Multi-Bay Charging Kit, RL series, 3-Upright Unit & 2 Battery Depot Charger, US Plug
229030-000	Single Charger Stand, RL Series - AC not included
Communication Cables	
210304-100	USB Cable (mini B to USB-A)
210164-100	Cable, Coiled, Right Angle, DB9 F
210191-101	Cable DB-9 F (7'/2.1m)
Accessories	
230112-000	RL Series Universal Mounting Bracket
280656-000	RL Series Belt Clip
210305-000	RL Series Belt Loop
210300-000	RL Series Hand strap
210302-000	RL Series Shoulder Strap
750332-000	RL3 / RL3e IP54 Case
220280-000	RL Series "RAM Mount" compatible Adapter and Ball
280711-000	External Media Spacer - RL3 / RL3e
280688-000	External Media Spacer - RL4 / RL4e

RL3e/RL4e

Printers & Accessories

Quick Start Guide





right by our customers.



