

Migration guide

Zebra® LP 2824 Plus™ & TLP 2824 Plus™ printers



To facilitate easy migration from your current two-inch (56mm) 28-series desktop to the new LP/TLP 2824 Plus printers, this document outlines the key operational differences and considerations:

- Firmware
- Communication
- Hardware
- Media & ribbon-handling
- Features comparison



Firmware

1. One of the features of the new LP 2824 Plus and TLP 2824 Plus printers is their dual residency of command languages: the coexistence of both EPL™ and ZPL® command sets and the printers' ability to process them makes these printers very different from the individual command-specific 28-series printers. Whilst the printers will seamlessly handle different language formats or scripts sent in succession, individual constructs must be maintained. EPL and ZPL scripts cannot be merged together.
2. In addition to coexistent EPL and ZPL, the printer LP 2824 Plus also supports EPL Line Mode.
3. The Feed button modes of LP/TLP 2824 Plus printers follow that of the ZPL-based LP/TLP 2824-Z. With its various flash sequences, it provides more control over the printer's setup and continued use. This is a feature previously unavailable to EPL-based 28-series printers and will avoid any unwanted entries into a diagnostic mode or line mode of operation. Full details of the printer's Feed button modes can be found in its associated user manual.
4. The default configuration report that can be output via a one-flash sequence is that of a ZPL-based printer. If the printer is equipped with an internal 10/100 Ethernet option, then a subsequent configuration report detailing the print server setup will be output. Should a user be more familiar with the configuration report of an EPL-based LP/TLP 2824 printer and require this format, then it can be output via the appropriate EPL U-command.
5. The two-flash sequence on the LP/TLP 2824 Plus printers will only perform a manual calibration routine, which is a slightly different operation from that of the ZPL-based LP/TLP 2824-Z. Should you require the media histogram output, then this is available following a new seven-flash sequence.
6. The four-flash sequence on the LP/TLP 2824 Plus printers has various sub-flash sequences available to it to reset either printer or network settings to factory default values. Full details of the printer's Feed button modes can be found in its associated user manual.
7. The command set has been expanded and now includes the Set, Get, Do (SGD) constructs. This control includes media handling, odometer functionality and network setup, and provides a common method of control beyond that of any similar EPL or ZPL features handling. Full details of the Set, Get, Do (SGD) commands can be found in the printer's associated programming manual.
8. The LP/TLP 2824 Plus printers now support Unicode™. The printers are pre-loaded with the Swiss 721 font and this can be accessed under ZPL to provide a multi-character, global printing solution.
9. Real-time-clock handling under EPL provides a time or date stamp of when the print job commenced. The ZPL command code and ^SL command should be used in order for this information to be updated throughout the print run.

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Communication

1. The LP/TLP 2824 Plus printers' serial port has an auto-sensing feature and will adapt automatically to support either the EPL-based straight-through or ZPL-based cross-over configurations.
2. The LP/TLP 2824 Plus printers' parallel port maintains a Centronics® configuration as per the older 28-series and this will accommodate the external print server devices.
3. The LP/TLP 2824 Plus printers' network configuration provides a combination of Ethernet (RJ-45) and USB (Type B) interface ports. This is different to the LP/TLP 2824 and LP/TLP 2824-Z network configurations that provide Ethernet (RJ-45) and Serial (RJ-11) interface ports.

Hardware

1. The LP/TLP 2824 Plus printers benefit from having a hardware reset button, which can be pressed for a number of seconds to restore the printer or network settings to their factory default values. Full details of the operation of the hardware reset button can be found in the printer's associated user manual.



Media & ribbon-handling

1. The media and ribbon handling has been maintained from the LP/TLP 2824 and LP/TLP 2824-Z through to the LP/TLP 2824 Plus printers. Any current media or ribbon stock can be used in the new LP/TLP 2824 Plus printers, including such accessory items as the direct-thermal printers' Media Adaptor Kit.
2. The default media action of the LP/TLP 2824 Plus printers resembles that of an EPL-based 28-series printer. The printer will not feed automatically at power-on, only following a lid closure. If exchanging between two different styles of media, it is recommended that a manual calibration be performed. This can be achieved via the printer's two-flash Feed button sequence. The printer can be changed to feed at both power-on or lid closure using the ZPL ^MF command.
3. For an LP/TLP 2824 Plus printer equipped with a cutter option, its default operation will be to double cycle following every 25th cut. This automatic dual cut is intended as a cleaning action to maintain the life of the cutter. This action can be disabled via the appropriate SGD command "cutter.clean_cutter", but it is not recommended.
4. Providing the relevant option is installed, common media handling can be controlled via the SGD constructs. The "media.printmode" command can be used to manage LP/TLP 2824 Plus printers in tear, peel or cutter modes of operation.

Features comparison

	LP/TLP2824	LP/TLP2824-Z	LP/TLP2824 Plus
Print speed			
4 ips (102mm)	✓	✓	✓
Resolution			
203 dpi (8 dots/mm)	✓	✓	✓
Programming language			
EPL (Eltron Programming Language)	✓		
ZPL (Zebra Programming Language)		✓	
EPL & ZPL co-existence			✓
Processor			
Single 16-bit processor	✓		
32-bit RISC processor		✓	✓
Connectivity			
Serial & USB	✓	✓	✓
Parallel	✓	✓	✓
10Base-T Ethernet & Serial (optional)	✓	✓	
10/100 Ethernet & USB (optional)			✓
Memory			
512KB flash, 128KB SRAM (standard)	✓		
1MB flash, 256KB SRAM with RTC (optional)	✓		
4MB flash, 8MB SDRAM (standard)		✓	✓
64MB flash with RTC (68MB total) (optional)			✓
Media handling			
Print length	279mm (11")	991mm (39")	991mm (39")
Media thickness	0.18mm (0.0071")	0.18mm (0.0071")	0.18mm (0.0071")
Dispenser	✓	✓	✓
Cutter	✓	✓	✓
Reflective/Transmissive sensing (fixed)	✓	✓	✓
Other			
Auto-sensing serial port			✓
Odometer			✓
Unicode			✓
ZBI 2.0™			✓
XML-enabled printing			✓
OPOS driver		✓	✓

Genuine Zebra supplies prolong the life and improve the performance of a Zebra printer. In the table below, we've listed the label materials available in our ZipShipSM range, for which we have many label sizes to fit the new LP/TLP 2824 Plus printers. For more information, refer to the ZipShip price lists available on www.accesszebra.com

Receipt paper range

Product name	Thermal-transfer/ Direct-thermal	Description	Key feature	Government	Logistics	Healthcare	Manufacturing	Parking	Post and Parcel	Retail	Utilities	Hospitality, Service & Leisure	Suggested temperature - min.	Suggested temperature - max.
Z-Perform™ 1000D 80 Receipt	DT	Receipt paper in 80-micron thickness	Low-cost, indoor-archivable for up to five years	✓				✓	✓	✓	✓	✓	-5°C	49°C
Z-Select™ 2000D	DT	Premium paper label with general-purpose permanent adhesive	Excellent image quality; good moisture-resistance		✓	✓			✓	✓	✓		-40°C	50°C
Z-Select 2000D Removable	DT	Premium paper label with general-purpose removable adhesive	Excellent image quality; good moisture-resistance			✓				✓	✓		-40°C	50°C
Z-Select 2000D 190 Tag	DT	Premium 185-micron paper tag	Excellent image quality; good resistance to fading under UV light		✓		✓			✓			-5°C	49°C
Z-Perform 1000T	TT	Economy paper label with general-purpose permanent adhesive	Low-cost		✓		✓		✓				-20°C	80°C
Z-Select 2000T	TT	Premium paper label with general-purpose permanent adhesive	Superb image quality; high print speeds	✓	✓	✓	✓		✓				-20°C	90°C
PolyE 3000T Gloss	TT	Gloss-white polyethylene label with general-purpose permanent adhesive	Recyclable with pallet shrinkwrap; low-cost synthetic; good tear-resistance compared to paper labels		✓		✓			✓			-10°C	60°C
Z-Ultimate® 3000T White	TT	Gloss-white polyester label with general-purpose permanent adhesive	Excellent resistance to high temperatures, water and many chemicals. UL/CSA acceptances when matched with Zebra 4800,5095 and 5100 ribbons			✓	✓			✓	✓		-40°C	150°C
Z-Ultimate 3000T Silver	TT	Gloss-silver polyester label with general-purpose permanent adhesive	Excellent resistance to high temperatures, water and many chemicals. UL/CSA acceptances when matched with Zebra 4800,5095 and 5100 ribbons				✓		✓	✓			-40°C	150°C
Z-Band® Direct	DT	Polypropylene wristband with permanent adhesive tab closure	Tamper-evident security slits; anti-microbial coating, good resistance to water and most soaps and cleaning agents			✓						✓	-40°C	60°C
Z-Band 4000	TT	Gloss polyester wristband with permanent adhesive	More durable and resistant wristband solution; use with Zebra 5095 resin ribbon			✓						✓	-29°C	149°C

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