



SINCE 1881 WE KNOW  
HOW VALUABLE TIME IS.



THAT'S WHY WE  
BUILD PRINTERS  
WHICH SAVE YOU  
MANY SECONDS.

# Why direct thermal?

Direct thermal printers are widely used in everyday life, including medical devices, self-service technology, point-of-sale, mobile applications, and more.

## EFT-POS



**EFT-POS (Electronic Funds Transfer at Point of Sale) is expanding market with rise in demand!**

SII offers best solution of thermal printing to EFT-POS market since its dawn. SII Thermal Printer has contributed to spread thermal printing technology in EFT-POS market and became our bestseller mechanism.

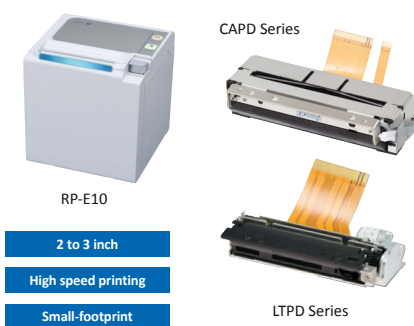


## POS/ECR



**Using thermal printer in ECR (Electronic Cash Register) has been started in European market and Now spread throughout the world!**

In recent years, thermal printer is widely used for ECR market expected higher cost-effective, and for POS market expected sophisticated-features & heavy-duty.



## Medical Measuring



**Best for data and chart printing, what is more easy maintenance and quiet!**

SII Thermal Printer is quiet, cleanness and easy maintenance which has been adapted for the medical and the measurement equipment for long time.



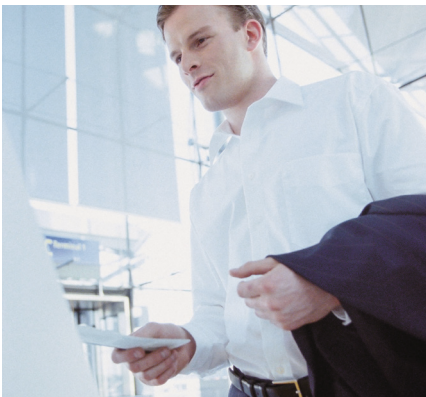
Direct thermal technology produces an image by applying a heating element to specially treated thermal paper. Unlike other printing formats, it operates with few moving parts and does not consume toner or ribbons. This translates into reliable long-life performance and reduced maintenance costs.

With precision engineering Seiko Instruments continues to build on direct thermal's advantages.

We offer a complete line of reliable high performance printers with flexible, small footprint designs that help streamline the integration process. Rely on dependable Seiko Instruments printers and components to tackle even the toughest thermal printing requirements.



## CD/ATM Kiosk Lottery



**Reliable SII's thermal printers are the best matches with the KIOSK terminals printing receipt and ticket and so on!**

SII's wide-variety of product line helps any printing demands on self-service terminal / ATM / ticketing applications.



APU-G247



CAPM347

2 to 3 inch

High reliability

Auto cutter



## Mobile



**Demand of Mobile printing is expanding in various applications!**

Mobile printing has become a critical tool in industrial, logistics and retail market.

With utilizing smartphone or tablet PC, it will be widely expanding its business field moreover.



DPU-S245



DPU-S445

2 to 4 inch

Compact & light-weight

Wireless

# Thermal Printer Product Catalog

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# Product Classification Table

## Line Thermal Printer Mechanism

Classification	Product	Paper width (mm)	Resolution (dots/mm)	Product category
Low voltage	CAPD245	58	8	Easy paper operation mechanism
	CAPD345	80	8	
	LTPD245	58	8	
	LTPD345	80	8	
	LTP01	58	8	
	LTP02	58	8	
	LTPJ245	58	8	
	LTPU245	58	8	
	LTPZ245	58	8	
24 volt	LTPF247	58	8	Easy paper operation mechanism
	LTPF347	80	8	
	CAPD247	58	8	
	CAPD347	80	8	
	LTPD247	58	8	
	LTPD347	80	8	
	CAPM347	58 / 60 / 80 / 83	8	Loading mechanism
	CAPM347	58 / 60 / 80 / 83	8	
	CAP9247	58 / 60	8	
	CAP9347	80 / 82.55	8	
LTP9247	58 / 60	8		

## Serial Printer Mechanism

Classification	Product	Paper width (mm)	Resolution (dots/mm)	Dot composition (H×W)
Low voltage	MTP102-16B	38	–	7 × 110
	MTP201-20B	58	–	7 × 138
	MTP201-24B	58	–	7 × 166
	MTP401-40B	80	–	7 × 278
	MTP201-G166	58	–	8 × 166

## Printer Unit

Classification	Product	Paper width (mm)	Resolution (dots/mm)	Dot composition (H×W)
Mobile printer	DPU-S245	58	8	–
	DPU-S445	112	8	–
POS printer	RP-E10/E11	58 / 80	8	–
	RP-D10	58 / 80	8	–
Standalone printer unit	DPU-414	112	–	9 × 320
Panel-mount printer unit	DPU-D2	58	8	–
	DPU-D3	80	8	–
Sub-assembled printer unit	APU-G247	58	8	–

# Peripherals Guide

## Printer Mechanism

Classification	Product	Auto cutter	Interface	CPU	Winder unit
Low voltage	CAPD245	Included	IFD501-01UK IFD501-01SK	PTD50P01	-
	CAPD345	Included			
	LTPD245	-			
	LTPD345	-			
	LTP01	-	-	-	-
	LTP02	-	-	PT02-5SU	-
	LTPJ245	-	-	-	-
	LTPU245	-	-	-	-
	LTPZ245	-	-	-	-
24 volt	LTPF247F	ACUF224	IFF001-02B IFF001-02BK	-	WU282
	LTPF347F	ACUF324			-
	LTPF247E	ACUF224	-	PTF20P01	-
	LTPF347E	ACUF324			
	CAPD247	Included	IFD001-01UK IFD001-01SK	PTD00P01	-
	CAPD347	Included			
	LTPD247	-			
	LTPD347	-			
	CAPM347	Included	IFM201-01UK IFM201-01SK	PTM20P01	-
	CAP9247	Included	IF9001-03S IF9001-03U	-	-
	CAP9347	Included			
	LTP9247	-			
	Serial Printer	MTP102	-	-	-
MTP201					
MTP401					

Low Voltage

24 Volt

Mobile Printer

POS Printer

Standalone Printer Unit

## Printer Unit

Product category	Product	Power supply	Battery pack	Battery charger	Power cable	Other
Mobile printer	DPU-S245	PW-D0940-W1	BP-L0716	PWC-L07C1	CB-JP04-18A	Carrying case CVR-C01-1
					CB-US04-18A	
					CB-CE01-18B	
					CB-CH01-20A	
					CB-UK01-20A	
POS printer	RP-E10 / E11 RP-D10	PW-E2427-W1	-	-	CB-JP04-18A	Carrying case CVR-B01-1
					CB-US04-18A	
					CB-CE01-18B	
					CB-CH01-20A	
					CB-UK01-20A	
					CB-AU01-20A	
POS printer	RP-E10 / E11 RP-D10	PW-E2427-W1	-	-	CB-JP07-20A	Wall mounting kit WLK-B01-1
					CB-US05-20A	
					CB-CE04-20A	
					CB-UK03-20A	
					CB-AU03-20A	
Standalone printer unit	DPU-414	PW-C0725-W1-U	BP-4005	-	-	-
		PW-C0725-W1-E				
		PW-C0725-W1-C				
		PW-C0725-W1-K				
		PW-C0725-W1-B				
		PW-C0725-W1-A				

Panel-Mount Printer Unit

Sub-assembled Printer Unit

Serial Printer

Other Models Line up

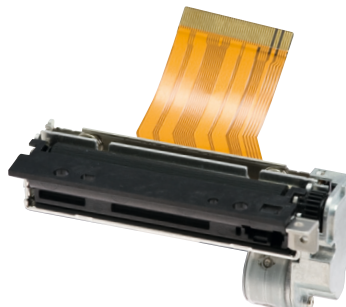
Thermal Printer Mechanism

## LTPD245/345



- High performance in compact design
- Max. printing speed (LTPD245) : 100mm/sec
- Platen latch function
- Label printing \*Under specific conditions only.

LTPD345 (Horizontal)



LTPD245 (Vertical)

Model		LTPD245	LTPD345
Printing	Method	Thermal line dot printing	
	Number of dots/line	384	576
	Resolution (dots/mm)	8	
	Paper width (mm)	58 <sup>+0</sup> <sub>-1</sub>	80 <sup>+0</sup> <sub>-1</sub>
	Printing width (mm)	48	72
	Speed (mm/sec) max	100	80
Detection	Paper path	Curved	
	Head temperature	By thermistor	
	Platen position	By mechanical switch	
Power supply (V)	Out of paper	By photo interrupter	
	Operation voltage (V <sub>dd</sub> )	2.7 to 3.6 / 4.75 to 5.25	
	Operation voltage (V <sub>p</sub> )	4.75 to 9.5	
Peak current (A)	Head	3.66 (9.5V / 64dots) / 5.49 (9.5V / 96dots)	3.60 (9.5V / 64dots) / 5.40 (9.5V / 96dots)
	Motor	0.6	
Service Life	Pulse activation (pulse)	100 million	
	Abrasion resistance (km)	50 <sup>*1</sup>	
Operating temperature (°C)		-10 to 50 <sup>*1 *3</sup>	
Dimensions (W×D×H mm)	Horizontal	69.0 × 30.0 × 15.0 <sup>*2</sup>	91.0 × 30.0 × 15.0 <sup>*2</sup>
	Vertical	69.0 × 15.0 × 30.0 <sup>*2</sup>	91.0 × 15.0 × 30.0 <sup>*2</sup>
Mass (g)		Approx. 40	

\*1 Use recommended thermal papers. \*2 Excluding protrusion. \*3 -30°C to 70°C. Supported by designated conditions only.

### Interface

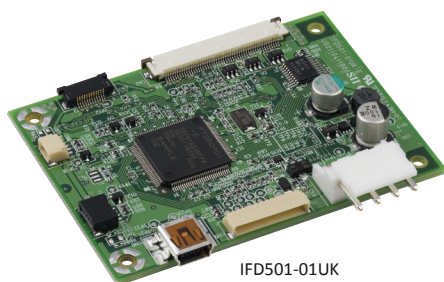
Model	IFD501-01UK	IFD501-01SK	
CPU	PTD50P01		
Thermal printer	LTPD245, LTPD345, CAPD245, CAPD345		
Operating voltage (V)	V <sub>p</sub> : 4.75 to 9.5		
Character matrix (H×W dots)	16 dots characters: 16 × 8, 16 × 16 24 dots characters: 24 × 12, 24 × 24		
Character type	Extended graphics character set	Yes	Yes
	Katakana character set	Yes	Yes
	Codepage 1252	Yes	Yes
	Optional font	Yes	Yes
	Downloaded character	Yes	Yes
	User-defined character	Yes	Yes
JIS 1 & 2 level kanji	Yes	Yes	
Communication interface	USB (2.0)	Serial (RS-232C)	
Dimensions (W×D×H mm)	69.0 × 50.0 × 14.0		
Software <sup>*4</sup>	Printer driver, OPOS, Linux®		

\*4 Please see P.29 for details.

### CPU

Model	PTD50P01
Thermal printer	LTPD245, LTPD345, CAPD245, CAPD345
Package form	120pin QFP
Operating voltage (V)	V <sub>p</sub> : 4.75 to 9.5, V <sub>cc</sub> : 3.0 to 3.6
Input frequency (MHz)	12 +/- 0.01%
Configuration	C-MOS LSI
Communication interface	Parallel, Serial, USB
Character type	Extended graphics character set, Codepage 1252 Other characters is available with CGs <sup>*5</sup> or external ROM
Character matrix (H×W dots)	16 dots characters: 16 × 8, 16 × 16 24 dots characters: 24 × 12, 24 × 24
Dimensions (W×D×H mm)	16.0 × 16.0 × 1.7
Software <sup>*6</sup>	Printer driver, OPOS, Linux®

\*5 CG ROM: Japanese \*6 Please see P.29 for details.



IFD501-01UK



IFD501-01SK

Low Voltage

24 Volt

Mobile Printer

POS Printer

Standalone Printer Unit

Panel-Mount Printer Unit

Sub-assembled Printer Unit

Serial Printer

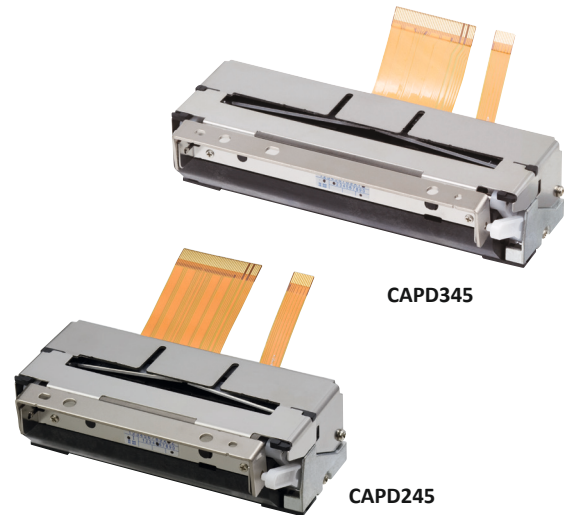
Other Models Line up

## Thermal Printer Mechanism

# CAPD245/345



- Built-in auto-cutter
- Jam-free cutter design
- Max. printing speed (CAPD245) : 100mm/sec
- Platen latch function



Model	CAPD245	CAPD345		
Printing	Method		Thermal line dot printing	
	Number of dots/line		384	576
	Resolution (dots/mm)		8	
	Paper width (mm)		58 <sup>+0</sup> <sub>-1</sub>	80 <sup>+0</sup> <sub>-1</sub>
	Printing width (mm)		48	72
	Speed (mm/sec) max		100	80
Detection	Paper path		Curved	
	Head temperature		By thermistor	
	Platen position		By mechanical switch	
	Out of paper		By photo interrupter	
Power supply (V)	Operation voltage (Vdd)		2.7 to 3.6 / 4.75 to 5.25	
	Operation voltage (Vp)		4.75 to 9.5	6.5 to 9.5
Peak current (A)	Head		3.66 (9.5V / 64dots) / 5.49 (9.5V / 96dots)	
	Motor		0.6	
	Cutter		0.7	
Auto cutter	Method		Slide type	
	Paper thickness (μm)		54 to 80 <sup>1</sup>	
	Cutting type		Full cut / Partial cut (Leave center point)	
	Operating time (sec/cycle) max		Approx. 1.0	
	Cutting pitch (mm) min		10	
Service Life	Cut frequency (cut/min) max		30	
	Pulse activation (pulse)		100 million	
	Abrasion resistance (km)		50 <sup>1</sup>	
	Paper cutting (cut)		500,000 <sup>1</sup>	
Operating temperature (°C)		-10 to 50		
Dimensions (W×D×H mm)		83.1 × 35.4 × 26.9 <sup>2</sup>	105.1 × 35.4 × 27.2 <sup>2</sup>	
Mass (g)		Approx. 125	Approx. 148	

\*1 Use recommended thermal papers. \*2 Excluding mounting part.

## Interface / CPU \*3

	Model
USB interface board	IFD501-01UK
Serial interface board	IFD501-01SK
CPU	PTD50P01
Software*4	Printer driver, OPOS, Linux®

\*3 Interface boards and CPU are mutual options with LTPDX45 series. \*4 Please see P.29 for details.

Low Voltage

24 Volt

Mobile Printer

POS Printer

Standalone Printer Unit

Panel-Mount Printer Unit

Sub-assembled Printer Unit

Serial Printer

Other Models Line up

Thermal Printer Mechanism

# LTP01 Series



- Max. printing speed: 75mm/sec
- Compact and light-weight
- Compatible model with LTPZ245 (Horizontal)



LTP01-245

Model	LTP01-245	
	without platen detecting switch	with platen detecting switch
Printing	Method	Thermal line dot printing
	Number of dots/line	384
	Resolution (dots/mm)	8
	Paper width (mm)	58 <sup>+0</sup> <sub>-1</sub>
	Printing width (mm)	48
	Speed (mm/sec) max	75
	Paper path	Curved
Detection	Head temperature	By thermistor
	Platen position	—
	Out of paper	By photo interrupter
Power supply (V)	Operation voltage (V <sub>dd</sub> )	3.0 to 3.6 / 4.75 to 5.25
	Operation voltage (V <sub>p</sub> )	4.75 to 9.5
Peak current (A)	Head	3.76 (9.5V / 64 dots)
	Motor	0.6
Service Life	Pulse activation (pulse)	100 million
	Abrasion resistance (km)	50 <sup>*1</sup>
Operating temperature (°C)	0 to 50	
Dimensions (W×D×H mm)	69.8 × 32.7 × 15.3 <sup>*2</sup>	70.3 × 32.7 × 15.3 <sup>*2</sup>
Mass (g)	Approx. 44	

\*1 Use recommended thermal papers. \*2 Excluding protrusion.

Low Voltage

24 Volt

Mobile Printer

POS Printer

Standalone Printer Unit

Panel-Mount Printer Unit

Sub-assembled Printer Unit

Serial Printer

Other Models Line up



## Thermal Printer Mechanism

# LTP02



POS/ECR



EFT-POS



Measuring Instrument



Portable Printer



Medical Equipment

- Max. printing speed: 100mm/sec
- Extremely compact design for mobile terminal
- Light weight only 28g



LTP02-245

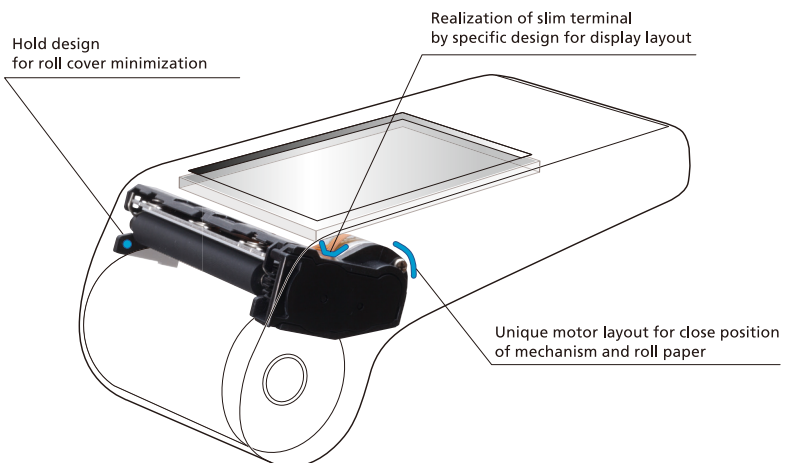
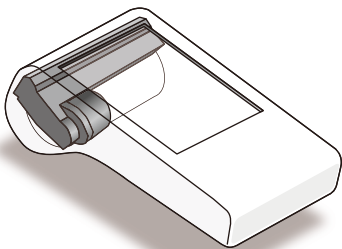
Model	LTP02-245	
Printing	Method	Thermal line dot printing
	Number of dots/line	384
	Resolution (dots/mm)	8
	Paper width (mm)	58 <sup>+0</sup> <sub>-1</sub>
	Printing width (mm)	48
	Speed (mm/sec) max	100
	Paper path	Curved
Detection	Head temperature	By thermistor
	Platen position	By mechanical switch
	Out of paper	By photo interrupter
Power supply (V)	Operation voltage (V <sub>dd</sub> )	3.0 to 3.6
	Operation voltage (V <sub>p</sub> )	5.5 to 9.5
Peak current (A)	Head	2.64 (9.5V / 45 dots)
	Motor	0.6
Service Life	Pulse activation (pulse)	100 million
	Abrasion resistance (km)	50 <sup>*1</sup>
Operating temperature (°C)	-10 to 50	
Dimensions (W×D×H mm)	67.3 × 18.1 × 30.0 <sup>*2</sup>	
Mass (g)	Approx. 28	

\*1 Use recommended thermal papers. \*2 Excluding protrusion.

## CPU

Model	PT02-SSU
Thermal printer	LTP02-245
Package form	48pin LQFP
Operating voltage (V)	V <sub>p</sub> : 5.5 to 9.5, V <sub>cc</sub> : 3.0 to 3.6
Input frequency (MHz)	16 +/- 0.01%
Configuration	C-MOS LSI
Communication interface	USB input / output (Device / Printer class / Full speed)
Operating temperature (°C)	-10 to 50
Storage temperature (°C)	-30 to 70
Dimensions (W×D×H mm)	9.0 × 9.0 × 1.5

Smart design to contribute reducing terminal size!



Low Voltage

24 Volt

Mobile Printer

POS Printer

Standalone Printer Unit

Panel-Mount Printer Unit

Sub-assembled Printer Unit

Serial Printer

Other Models Line up

Thermal Printer Mechanism

# LTPJ Series



EFT-POS Portable Printer

LTPJ245D



LTPJ245G

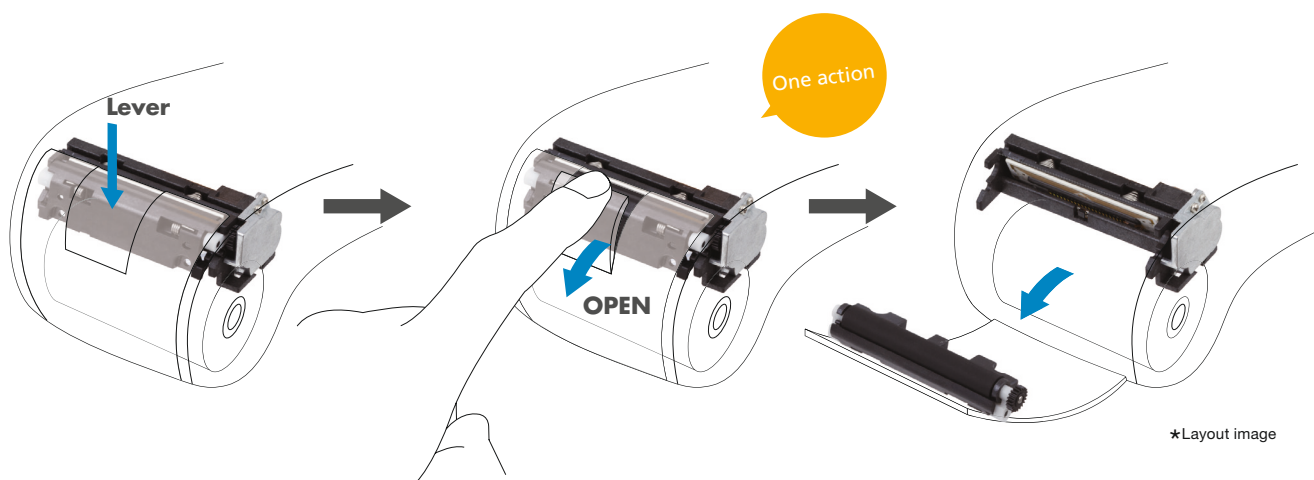
- Max. printing speed: 75mm/sec
- Compact and light-weight
- Front open mechanism with latch function

Model	LTPJ245D	LTPJ245G
Printing	Method	Thermal line dot printing
	Number of dots/line	384
	Resolution (dots/mm)	8
	Paper width (mm)	58 <sup>+0</sup> <sub>-1</sub>
	Printing width (mm)	48
	Speed (mm/sec) max	75
Detection	Paper path	Straight
	Head temperature	By thermistor
Power supply (V)	Out of paper	By photo interrupter
	Operation voltage (Vdd)	3.0 to 3.6 / 4.75 to 5.25
Peak current (A)	Operation voltage (Vp)	5.5 to 9.5
	Head	3.6 (9.5V / 64dots)
Service Life	Motor	0.6
	Pulse activation (pulse)	100 million
Operating temperature (°C)	Abrasion resistance (km)	50 <sup>*1</sup>
		-10 to 50
Dimensions (W×D×H mm)	68.5 × 31.5 × 22.0 <sup>*2</sup>	68.5 × 36.5 × 22.0 <sup>*2</sup>
Mass (g)	Approx. 39	Approx. 38

\*1 Use recommended thermal papers. \*2 Excluding protrusion.

### New latch mechanism

The highly innovative latch mechanism provides most natural and easiest operation when paper reloading.



Low Voltage

24 Volt

Mobile Printer

POS Printer

Standalone Printer Unit

Panel-Mount Printer Unit

Sub-assembled Printer Unit

Serial Printer

Other Models Line up

Thermal Printer Mechanism

# LTPU245



EFT-POS



Portable Printer

- Max. printing speed: 75mm/sec
- Extremely compact design
- Light weight only 30g
- Platen latch function



LTPU245

Model		LTPU245
Printing	Method	Thermal line dot printing
	Number of dots/line	384
	Resolution (dots/mm)	8
	Paper width (mm)	58 <sup>+0</sup> <sub>-1</sub>
	Printing width (mm)	48
	Speed (mm/sec) max	75
	Paper path	Curved
Detection	Head temperature	By thermistor
	Out of paper	By photo interrupter
Power supply (V)	Operation voltage (V <sub>dd</sub> )	3.0 to 3.6 / 4.75 to 5.25
	Operation voltage (V <sub>p</sub> )	5.5 to 9.5
Peak current (A)	Head	3.66 (9.5V / 64dots)
	Motor	0.6
Service Life	Pulse activation (pulse)	100 million
	Abrasion resistance (km)	50 <sup>*1</sup>
Operating temperature (°C)		-10 to 50
Dimensions (W×D×H mm)		69.8 × 17.3 × 25.0 <sup>*2</sup>
Mass (g)		Approx. 30

\*1 Use recommended thermal papers. \*2 Excluding protrusion.

Low Voltage

24 Volt

Mobile Printer

POS Printer

Standalone Printer Unit

Panel-Mount Printer Unit

Sub-assembled Printer Unit

Serial Printer

Other Models Line up

Thermal Printer Mechanism

# LTPZ Series



POS/ECR



EFT-POS



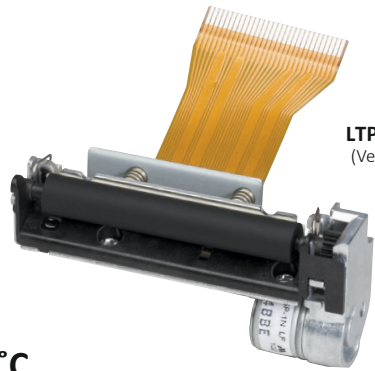
Measuring Instrument



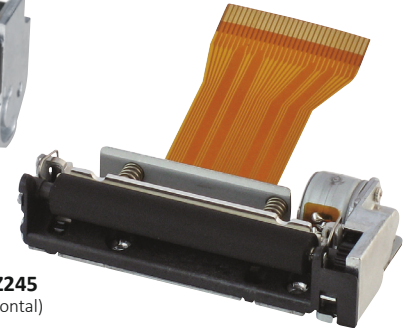
Portable Printer



Medical Equipment



LTPZ245  
(Vertical)



LTPZ245  
(Horizontal)

- Max. printing speed: 75mm/sec
- Compact and light-weight
- Operating temperature: -20°C to 50°C

Model	LTPZ245	
	Horizontal	Vertical
Printing	Method	Thermal line dot printing
	Number of dots/line	384
	Resolution (dots/mm)	8
	Paper width (mm)	58 <sup>+0</sup> <sub>-1</sub>
	Printing width (mm)	48
	Speed (mm/sec) max	75
	Paper path	Curved
Detection	Head temperature	By thermistor
	Out of paper	By photo interrupter
Power supply (V)	Operation voltage (Vdd)	3.0 to 3.6 / 4.75 to 5.25
	Operation voltage (Vp)	4.75 to 9.5
Peak current (A)	Head	3.60 (9.5V / 64 dots)
	Motor	0.6
Service Life	Pulse activation (pulse)	100 million
	Abrasion resistance (km)	50 <sup>*1</sup>
Operating temperature (°C)	-20 to 50	
Dimensions (WxDxH mm)	70.1 × 32.7 × 15.3 <sup>*2</sup>	70.1 × 21.8 × 31.0 <sup>*2</sup>
Mass (g)	Approx. 44	Approx. 46

\*1 Use recommended thermal papers. \*2 Excluding protrusion.

Low Voltage

24 Volt

Mobile Printer

POS Printer

Standalone Printer Unit

Panel-Mount Printer Unit

Sub-assembled Printer Unit

Serial Printer

Other Models Line up

Thermal Printer Mechanism

# CAPM Series



- Max. printing speed: 300mm/sec
- Build in auto paper cutter
- Head open design for easy paper operation
- Heavy-duty: 200km, 2mil. cuts
- Wide operating temperature: -20°C to 60°



CAPM347

Model	CAPM347				
	Easy paper operation model		Loading model		
	Regular thermal paper	Thick thermal paper	Regular thermal paper	Thick thermal paper	
Printing	Method	Thermal line dot printing			
	Number of dots/line	640			
	Resolution (dots/mm)	8			
	Paper width (mm)	58 <sup>+0</sup> / 60 <sup>+0</sup> / 80 <sup>+0</sup> / 83 <sup>+0</sup>			
	Printing width (mm)	54 / 56 / 72 / 80			
	Speed (mm/sec) max	300 <sup>*1</sup>	280 <sup>*1</sup>	300 <sup>*1</sup>	280 <sup>*1</sup>
Detection	Head temperature	By thermistor			
	Head position	By mechanical switch			
	Out of paper	By photo interrupter			
	Mark position	By photo interrupter <sup>*1</sup>			
	Cutter home position	By photo interrupter			
Power supply (V)	Operation voltage (Vdd)	2.7 to 3.6 / 4.75 to 5.25			
	Operation voltage (Vp)	21.6 to 26.4			
Peak current (A)	Head / Motor / Cutter 5.6 (26.4V / 144dots) / 1.2 / 1.1				
Auto Cutter	Method	Slide type			
	Paper thickness (μm) <sup>*1</sup>	54 to 90 <sup>*2</sup>	100 to 150 <sup>*2</sup>	54 to 90 <sup>*2</sup>	100 to 150 <sup>*2</sup>
	Cutting type	Full cut / Partial cut (Leave center point)			
Service Life	Pulse activation (pulse)	200 million	100 million	200 million	100 million
	Abrasion resistance (km)	200 <sup>*2</sup>	100 <sup>*2</sup>	200 <sup>*2</sup>	100 <sup>*2</sup>
	Paper cutting (cut)	2,000,000 <sup>*2</sup>	1,000,000 <sup>*2</sup>	2,000,000 <sup>*2</sup>	1,000,000 <sup>*2</sup>
	Operating temperature (°C)	-20 to 60 <sup>*1</sup>	-20 to 60 <sup>*1</sup>	-20 to 60 <sup>*1</sup>	-20 to 60 <sup>*1</sup>
Dimensions (W×D×H mm)	110.0 × 61.0 × 53.4		110.0 × 61.0 × 55.9		
Mass (g)	Approx. 500				

\*1 Under specified condition. \*2 Use recommended thermal papers.

## Interface

Model	IFM201-01UK	IFM201-01SK
CPU	PTM20P01	
Thermal printer	CAPM347	
Operating voltage (V)	Vp: 21.6 to 26.4	
Character matrix (H×W dots)	16 dots characters: 16 × 8, 16 × 16 24 dots characters: 24 × 12, 24 × 24	
Character type	Extended graphics character set, Katakana character set, Codepage (437, 850, 852, 858 and 1252), JIS 1st and 2nd level Kanji, NEC special characters, NEC selection of IBM extensions, IBM extensions, Downloaded character, User-defined character, Optional font	
Communication interface	USB (2.0)	Serial (RS-232C)
Dimensions (W×D×H mm)	60.0 × 80.0 × 14.0	
Software <sup>*3</sup>	Printer driver, OPOS, POS for .Net, Linux®	

\*3 Please see P.29 for details.

## CPU

Model	PTM20P01
Thermal printer	CAPM347
Package form	144pin QFP
Operating voltage (V)	Vp: 21.6 to 26.4, Vdd: 3.0 to 3.6
Input frequency (MHz)	12 +/- 0.01%
Configuration	C-MOS LSI
Communication interface	Parallel, Serial, USB
Character type	Extended graphics character set, Other characters is available with CGs <sup>*4</sup> or external ROM
Character matrix (H×W dots)	16 dots characters: 16 × 8, 16 × 16 24 dots characters: 24 × 12, 24 × 24
Dimensions (W×D×H mm)	22.0 × 22.0 × 1.7
Software <sup>*5</sup>	Printer driver, OPOS, POS for .Net, Linux®

\*4 CG ROM: Japanese \*5 Please see P.29 for details.



Loading Model



Easy Paper Operation Model

Low Voltage

24 Volt

Mobile Printer

POS Printer

Standalone Printer Unit

Panel-Mount Printer Unit

Sub-assembled Printer Unit

Serial Printer

Other Models Line up

## Thermal Printer Mechanism

## LTPD247/347



POS/ECR



Measuring Instrument



Barcode

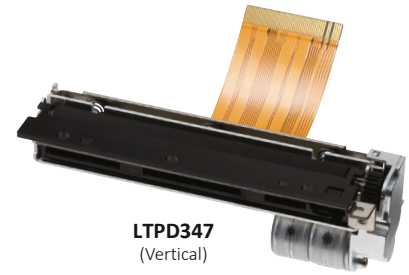


Label



Medical Equipment

- High performance in compact design
- Max. printing speed: 200mm/sec
- Platen latch function
- Label printing \*Under specific conditions only.

LTPD347  
(Vertical)LTPD247  
(Horizontal)

Model	LTPD247	LTPD347	
Printing	Method	Thermal line dot printing	
	Number of dots/line	432	576
	Resolution (dots/mm)	8	
	Paper width (mm)	58 <sup>+0</sup> <sub>-1</sub>	80 <sup>+0</sup> <sub>-1</sub>
	Printing width (mm)	54	72
	Speed (mm/sec) max	200	
Detection	Paper path	Curved	
	Head temperature	By thermistor	
	Platen position	By mechanical switch	
Power supply (V)	Out of paper	By photo interrupter	
	Operation voltage (V <sub>dd</sub> )	2.7 to 3.6 / 4.75 to 5.25	
Peak current (A)	Operation voltage (V <sub>p</sub> )	21.6 to 26.4	
	Head	2.61 (26.4V / 144dots) / 5.23 (26.4V / 288dots)	
Service Life	Motor	0.44	0.52
	Pulse activation (pulse)	100 million	
Operating temperature (°C)	Abrasion resistance (km)	100 <sup>1</sup>	
		-10 to 50	
Dimensions (W×D×H mm)	Horizontal	71.0 × 30.0 × 15.0 <sup>2</sup>	91.0 × 30.0 × 15.0 <sup>2</sup>
	Vertical	71.0 × 15.0 × 30.0 <sup>2</sup>	91.0 × 15.0 × 30.0 <sup>2</sup>
Mass (g)	Approx. 56		Approx. 64

\*1 Use recommended thermal papers. \*2 Excluding protrusion.

## Interface

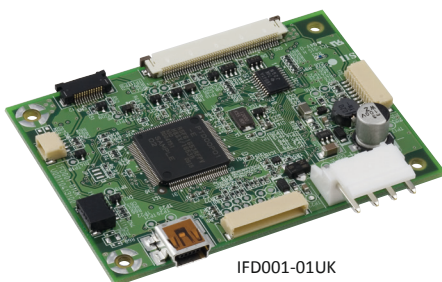
Model	IFD001-01UK	IFD001-01SK	
CPU	PTD00P01		
Thermal printer	LTPD247, LTPD347, CAPD247, CAPD347		
Operating voltage (V)	V <sub>p</sub> : 21.6 to 26.4		
Character matrix (H×W dots)	16 dots characters: 16 × 8, 16 × 16		
	24 dots characters: 24 × 12, 24 × 24		
Character type	Extended graphics character set	Yes	Yes
	Katakana character set	Yes	Yes
	Codepage 1252	Yes	Yes
	Optional font	Yes	Yes
	Downloaded character	Yes	Yes
	User-defined character	Yes	Yes
	JIS 1 & 2 level kanji	Yes	Yes
Communication interface	USB (2.0)	Serial (RS-232C)	
Dimensions (W×D×H mm)	69.0 × 50.0 × 14.0		
Software <sup>4</sup>	Printer driver, OPOS, POS for .Net, Linux <sup>5</sup>		

\*4 Please see P.29 for details.

## CPU

Model	PTD00P01
Thermal printer	LTPD247, LTPD347, CAPD247, CAPD347
Package form	120pin QFP
Operating voltage (V)	V <sub>p</sub> : 21.6 to 26.4, V <sub>cc</sub> : 3.0 to 3.6
Input frequency (MHz)	12 +/- 0.01%
Configuration	C-MOS LSI
Communication interface	Parallel, Serial, USB
Character type	Extended graphics character set, Codepage 1252 Other characters is available with CGs*5 or external ROM
Character matrix (H×W dots)	16 dots characters: 16 × 8, 16 × 16 24 dots characters: 24 × 12, 24 × 24
Dimensions (W×D×H mm)	16.0 × 16.0 × 1.7
Software <sup>6</sup>	Printer driver, OPOS, POS for .Net, Linux <sup>5</sup>

\*5 CG ROM: Japanese \*6 Please see P.29 for details.



IFD001-01UK



IFD001-01SK

Low Voltage

24 Volt

Mobile Printer

POS Printer

Standalone Printer Unit

Panel-Mount Printer Unit

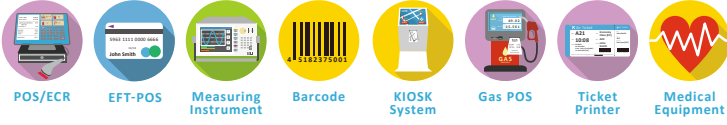
Sub-assembled Printer Unit

Serial Printer

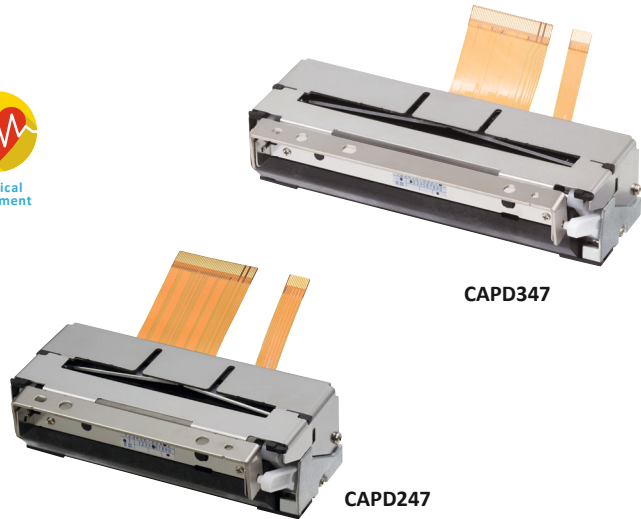
Other Models Line up

Thermal Printer Mechanism

# CAPD247/347



- Built-in auto-cutter
- Jam-free cutter design
- Max. printing speed: 200mm/sec
- Platen latch function



Model	CAPD247	CAPD347	
Printing	Method	Thermal line dot printing	
	Number of dots/line	432	576
	Resolution (dots/mm)	8	
	Paper width (mm)	58 <sup>+0</sup> <sub>-1</sub>	80 <sup>+0</sup> <sub>-1</sub>
	Printing width (mm)	54	72
	Speed (mm/sec) max	200	
	Paper path	Curved	
Detection	Head temperature	By thermistor	
	Platen position	By mechanical switch	
	Out of paper	By photo interrupter	
	Cutter home position	By photo interrupter	
Power supply (V)	Operation voltage (Vdd)	2.7 to 3.6 / 4.75 to 5.25	
	Operation voltage (Vp)	21.6 to 26.4	
Peak current (A)	Head	2.61 (26.4V / 144dots) / 5.23 (26.4V / 288dots)	
	Motor	0.44	0.52
	Cutter	0.64	
Auto cutter	Method	Slide type	
	Paper thickness (μm)	54 to 91 <sup>1</sup>	
	Cutting type	Full cut / Partial cut (Leave center point)	
	Operating time (sec/cycle) max	Approx. 0.5	
	Cutting pitch (mm) min	10	
Service Life	Cut frequency (cut/min) max	30	
	Pulse activation (pulse)	100 million	
	Abrasion resistance (km)	100 <sup>1</sup>	
	Paper cutting (cut)	1,000,000 <sup>1</sup>	
Operating temperature (°C)	-10 to 50		
Dimensions (W×D×H mm)	83.1 × 35.4 × 26.9 <sup>2</sup>	105.1 × 35.4 × 27.2 <sup>2</sup>	
Mass (g)	Approx. 131	Approx. 154	

<sup>1</sup> Use recommended thermal papers. <sup>2</sup> Excluding mounting part.

### Interface / CPU <sup>\*3</sup>

	Model
USB interface board	IFD001-01UK
Serial interface board	IFD001-01SK
CPU	PTD00P01
Software <sup>*4</sup>	Printer driver, OPOS, POS for .Net, Linux®

<sup>\*3</sup> Interface boards and CPU are mutual options with LTPDX47 series. <sup>\*4</sup> Please see P.29 for details.

Low Voltage

24 Volt

Mobile Printer

POS Printer

Standalone Printer Unit

Panel-Mount Printer Unit

Sub-assembled Printer Unit

Serial Printer

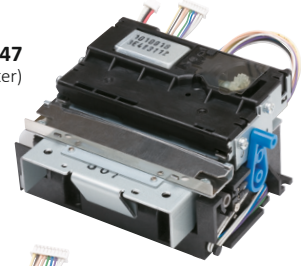
Other Models Line up

## Thermal Printer Mechanism

## LTPF Series



- Max printing speed: 220mm/sec
- Platen latch function
- Auto cutter option (Slide type) available

LTPF247  
(With auto cutter)

LTPF347

Model		LTPF247F	LTPF247E	LTPF347F	LTPF347E
Printing	Method	Thermal line dot printing			
	Number of dots/line	432		576	
	Resolution (dots/mm)	8			
	Paper width (mm)	58 <sup>+0</sup> <sub>-1</sub>		80 <sup>+0</sup> <sub>-1</sub>	
	Printing width (mm)	54		72	
	Speed (mm/sec) max	220	100	220	100
Detection	Paper path	Curved			
	Head temperature	By thermistor			
	Platen position	By mechanical switch			
Power supply (V)	Operation voltage (V <sub>dd</sub> )	4.75 to 5.25			
	Operation voltage (V <sub>p</sub> )	21.6 to 26.4			
Peak current (A)	Head	5.4 (26.4V / 128 dots)	2.6 (26.4V / 144 dots)	5.4 (26.4V / 128 dots)	2.6 (26.4V / 144 dots)
	Motor	0.46	0.55	0.46	0.55
Service Life	Pulse activation (pulse)	100 million			
	Abrasion resistance (km)	100 <sup>*1</sup>			
Operating temperature (°C)		0 to 50			
Dimensions (W×D×H mm)		86.2 × 54.0 × 25.8 <sup>*2</sup>		110.2 × 54.0 × 25.8 <sup>*2</sup>	
Mass (g)		Approx. 150		Approx. 175	

\*1 Use recommended thermal papers. \*2 Excluding protrusion.

## Interface

Model	IFF001-02B	IFF001-02BK	
CPU	PTF00P01		
Thermal printer	LTPF247F, LTPF347F		
Operating voltage (V)	V <sub>p</sub> : 21.6 to 26.4, V <sub>cc</sub> : 4.5 to 5.5		
Character matrix (H×W dots)	16 dots characters: 16 × 8, 16 × 16 24 dots characters: 24 × 12, 24 × 24		
Character type	Extended graphics character set	Yes	Yes
	Katakana character set	No	Yes
	Codepage 1252	Yes	Yes
	Downloaded character	Yes	Yes
	User-defined character	Yes	Yes
	JIS 1 & 2 level kanji	No	Yes
Communication interface	Parallel, Serial (C-MOS)		
Dimensions (W×D×H mm)	80.0 × 100.0 × 19.6		

## CPU

Model	PTF20P01
Thermal printer	LTPF247E, LTPF347E
Package form	128pin QFP
Operating voltage (V)	V <sub>p</sub> : 21.6 to 26.4, V <sub>cc</sub> : 4.75 to 5.25
Input frequency (MHz)	18.43 +/- 0.5%
Configuration	C-MOS LSI
Communication interface	Parallel, Serial
Character type	Extended graphics character set, Other characters is available with CGs <sup>*3</sup> or external ROM
Character matrix (H×W dots)	16 dots characters: 16 × 8, 16 × 16 24 dots characters: 24 × 12, 24 × 24
Dimensions (W×D×H mm)	22.0 × 16.0 × 3.15

\*3 CG ROM: Japanese

## Auto cutter

Model	ACUF224J	ACUF224H	ACUF324J	ACUF324H	
Thermal printer	LTPF247		LTPF347		
Cutting	Method	Slide type			
	Paper width (mm)	58 <sup>+0</sup> <sub>-1</sub>		80 <sup>+0</sup> <sub>-1</sub>	
	Paper thickness (μm)	60 to 80 <sup>*4</sup>			
	Cutting type	Partial cut (Leave enter point)	Full cut	Partial cut (Leave enter point)	Full cut
	Operating time (sec/cycle) max	0.6 (24V)			
	Cutting pitch (mm) min	10			
Cut frequency (cut/min) max	30				
Operating voltage (V)	Motor	21.6 to 26.4			
	Detector (control switch)	4.5 to 5.5			
Starting current (A)	1.2				
Life (Cut)	1,000,000 <sup>*5</sup>				
Dimensions (W×D×H mm)	80.0 × 64.0 × 19.0		102.0 × 64.0 × 19.0		
Mass (g)	Approx. 130		Approx. 150		

\*4 Use recommended thermal papers. \*5 Depending upon specified conditions.

## Winder unit

Model	WU282
Thermal Printer	LTPF247F
Paper width (mm)	58 <sup>+0</sup> <sub>-1</sub>
Paper thickness (μm)	70 to 80
Outside diameter of paper roll (mm) max	φ 83
Inside diameter of paper roll (mm) min	φ 20
Operating Voltage (V)	21.6 to 26.4
Speed (mm/s) max	220
Life (operating hours)	160
Dimensions (W×D×H mm)	87.8 × 92.0 × 97.6
Mass (g)	Approx. 136



Thermal Printer Mechanism

# CAP9000/LTP9000 Series



Barcode



KIOSK System



Ticket Printer

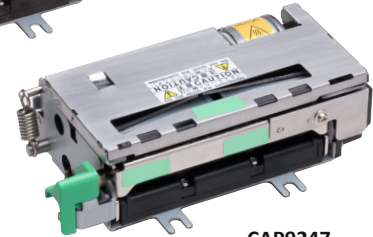


Gaming

- Max printing speed: 250mm/sec
- Compact 2", 3" heavy-duty mechanism
- Support thick paper: up to 155 $\mu$ m\*<sup>1</sup>  
(Straight path model only)
- Operation temperature: -20°C to 60°C



CAP9347



CAP9247

Model	CAP9247	CAP9347	LTP9247	
Printing	Method	Thermal line dot printing		
	Number of dots/line	448	640	448
	Resolution (dots/mm)		8	
	Paper width (mm)	58 <sup>+0</sup> <sub>-1</sub> / 60 <sup>+0</sup> <sub>-1</sub>	80 <sup>+0</sup> <sub>-1</sub> / 82.55 <sup>+0</sup> <sub>-1</sub>	58 <sup>+0</sup> <sub>-1</sub> / 60 <sup>+0</sup> <sub>-1</sub>
	Printing width (mm)	54 / 56	76 / 80	54 / 56
	Speed (mm/sec) max	250		
Detection	Paper path	Curved / Straight		
	Head temperature	By thermistor		
	Out of paper	By photo interrupter		
	Mark position	By photo interrupter		
	Platen position	By mechanical switch		
	Cutter position	By mechanical switch		—
Power supply (V)	Operation voltage (Vdd)	4.75 to 5.25		
	Operation voltage (Vp)	21.6 to 26.4		
Peak current (A)	Head	5.9 (26.4V / 128 dots)		
	Motor	1.0		
Auto cutter	Cutter	1.2	—	
	Method	Slide type		
	Paper thickness ( $\mu$ m)	57 to 155 <sup>*1</sup>		
	Cutting type	Full cut / Partial cut (Leave center point)		
	Operating time (sec/cycle) max	2		
	Cutting pitch (mm)min	10		
Service Life	Cut frequency (cut/min) max	30		
	Pulse activation (pulse)	150 million		
	Abrasion resistance (km)	150 <sup>*1</sup>		
Paper cutting (cut)	1,000,000 <sup>*1</sup>			—
Operating temperature (°C)	-20 to 60			
Dimensions (W×D×H mm)	89.5 × 50.0 × 30.0 <sup>*2</sup>	112.0 × 50.0 × 30.0 <sup>*2</sup>	88.8 × 50.0 × 29.7 <sup>*2</sup>	
Mass (g)	Approx. 131	Approx. 290	Approx. 150	

\*1 Use recommended thermal papers. \*2 Excluding protrusion.

## Interface

Model	IF9001-03U	IF9001-03S	
CPU	Custom CPU		
Thermal printer	CAP9247, CAP9347, LTP9247		
Operating voltage (V)	Vp: 21.6 to 26.4		
Character matrix (H×W dots)	16 dots characters: 16 × 8, 16 × 16 24 dots characters: 24 × 12, 24 × 24		
Character type	Extended graphics character set	Yes	Yes
	Katakana character set	Yes	Yes
	Optional font	Yes	Yes
	Downloaded character	Yes	Yes
	User-defined character	Yes	Yes
	JIS 1 & 2 level kanji	Yes	Yes
Communication interface	USB (2.0)	Serial (RS-232C)	
Dimensions (W×D×H mm)	108.0 × 90.0 × 28.0		
Software *	Printer driver, OPOS, Linux®		

\*Please see P.29 for details.

Low Voltage

24 Volt

Mobile Printer

POS Printer

Standalone Printer Unit

Panel-Mount Printer Unit

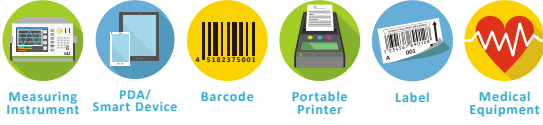
Sub-assembled Printer Unit

Serial Printer

Other Models Line up

Mobile Printer

# DPU-S Series



DPU-S445



DPU-S245

- Max printing speed: 100mm/sec (DPU-S245)  
90mm/sec (DPU-S445)
- Interface: Bluetooth®, USB, IrDA and Serial
- Compact and light-weight
- Easy paper operation
- Wide variety of driver and utility software suite

Model	DPU-S245	DPU-S445
Method	Thermal line dot printing	
Number of dots/line	384	832
Resolution (dots/mm)	8	
Paper width (mm)	58 <sup>+0</sup> <sub>-1</sub>	112 <sup>+0</sup> <sub>-1</sub>
Printing width (mm)	48	104
Speed (mm/sec) max	100	90
Outside diameter of paper roll (mm) max	φ 38	φ 50
Character matrix (H×W dots)	24 × 12, 24 × 24, 16 × 8, 16 × 16	
Character dimensions (H×W mm)	3.0 × 1.5, 3.0 × 3.0, 2.0 × 1.0, 2.0 × 2.0	
Number of columns	24, 12, 32, 16	52, 26, 69, 34
Type of Paper	Roll paper, Label roll paper	Roll paper, Label roll paper, Cut sheet paper
Character type	Extended graphics character set, Katakana character set, CP1252, Optional font, Downloaded character, User-defined character, JIS 1 & 2 level kanji	
Bar code	UPC-A/E, JAN (EAN) 8/13, ITF, CODE39, CODABAR, CODE128, PDF417, QR Code, MaxiCode, Data Matrix	
Power supply (V)	Li-Ion battery, Specified AC adapter	
Communication interface	Bluetooth®*1, USB, IrDA, Serial	
Input buffer	4K bytes	
Command	ESC/P™ conformity	
Cutting	Tear bar	
Operating temperature (°C)	-10 to 50	0 to 50
Service life (km)	50 <sup>*2</sup>	
Dimensions (W×D×H mm)	83 × 130 × 45 <sup>*3</sup>	145.0 × 135.0 × 58.0 <sup>*3</sup>
Mass (g)	Approx. 280 <sup>*4</sup>	Approx. 490 <sup>*4</sup>
Standard	FCC, CE, VCCI, CCC <sup>*5</sup>	
Option	AC adapter, Battery pack, Battery charger, AC cable, USB cable, Serial cable, Carrying case	
Software <sup>*6</sup>	Printer driver, Windows® CE (SDK), Android™ (SDK)	

\*1 Only Bluetooth® model. \*2 Use recommended thermal papers. \*3 Excluding protrusion. \*4 Including battery, excluding roll paper. \*5 DPU-Sx45-00A-E model only. \*6 Please see P.29 for details.

### Serial interface specification

Item	Specification
Baud rate	1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 bps
Data bit	7bits, 8bits
Parity bit	Odd, Even, or None
Stop bit	1bit, 2bits
Control method	H/W BUSY, Xon/Xoff

### USB interface specification

USB printer-class 2.0 conformity

### Bluetooth® interface specification

Based on Bluetooth® Ver. 2.0 + EDR

### Infrared interface specification

Based on IrDA Ver. 1.2

Based on BHT Ir protocol

### Easy paper operation



DPU-S245

DPU-S445

### Cut sheet paper



DPU-S445

Low Voltage

24 Volt

Mobile Printer

POS Printer

Standalone Printer Unit

Panel-Mount Printer Unit

Sub-assembled Printer Unit

Serial Printer

Other Models Line up

## Applications with 2" mobile printer DPU-S245 series

### Receipt printing at KIOSK stores or stands



With small footprint, very lightweight designs, DPU-S245 fits any tiny space at KIOSK stores or outdoor stands. And high speed printing minimizes waiting time in a queue.



### Receipt printing at On-site card payment



For mail-order or food delivery business, portability and ease-of use are keys of on-site receipt printing. DPU-S245 enhances your mobile POS business.



### Label printing at Parcel service



DPU-S245 supports label printing as well as standard receipt printing. It powerfully supports mobile labeling for parcel service or operations at warehouse.



## Applications with 4" mobile printer DPU-S445 series

### 4" wide printing at Sales force automation



With best in class portability, ease-of-use design, DPU-S445 supports outside salesperson. It can fit comfortably your briefcase!



### Printing bills for Utility service



For field work, DPU-S445 performs smart in rugged mobile environments.



### Barcode label printing at Warehouse



With battery operation, DPU-S445 works on the cart and prints barcode anywhere in warehouse.



Low Voltage

24 Volt

Mobile Printer

POS Printer

Standalone Printer Unit

Panel-Mount Printer Unit

Sub-assembled Printer Unit

Serial Printer

Other Models Line up

POS Printer

# RP-E10 Series

RP-E10



- **RP-E10: Paper top-exit / RP-E11: Paper front-exit (IPX1)**
- **Compact cube: 129mm × 129mm × 129mm**
- **Max printing speed: 350mm/sec**
- **High Reliability: 150km, 2 million cuts**
- **Wide variety of driver and utility software suite**
- **Large LED indicator (Multi-color)**



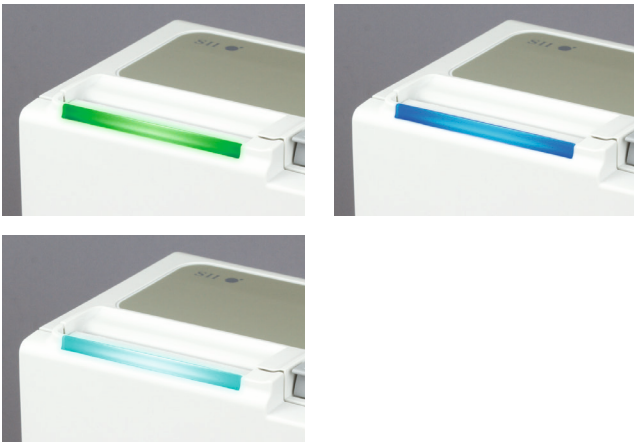
Model		RP-E10 (Receipt top-exit)	RP-E11 (Receipt front-exit)
Printing	Method	Thermal line dot printing	
	Number of dots/line	576	
	Resolution (dots/mm)	203 (8 dots / mm)	
	Paper width (mm)	58 <sup>+0</sup> <sub>-1</sub> / 80 <sup>+0</sup> <sub>-1</sub>	
	Printing width (mm)	54 / 72	
	Speed (mm/sec) max	350	
	Outside diameter of paper roll (mm) max	φ 83	
	Inside diameter of paper roll (mm)	φ 12	
	Character matrix (H×W dots)	24 × 12, 24 × 24, 16 × 8, 16 × 16	
	Character dimensions (H×W mm)	3.0 × 1.5, 3.0 × 3.0, 2.0 × 1.0, 2.0 × 2.0	
Type of Paper	Roll paper, Timing mark roll paper (Built-in timing mark sensor)		
Character type	Code page: 14pages, Optional font, Downloaded character, User-defined character, JIS 1 & 2 level kanji, Special character		
Bar code	UPC-A/E, JAN (EAN) 8/13, ITF, CODE39, CODABAR, CODE93, CODE128, PDF417, QR Code		
Power supply (V)	Specified AC adapter, External power (DC24V +/- 5%)		
Communication interface	USB, Serial, USB + Serial, Powered USB, Ethernet, Bluetooth®		
Input buffer	16k bytes		
Command	ESC/POS™ conformity, Markup Language		
Cutting	Methods	Slide type	
	Cutting type	Full cut, Partial cut (Leave center point)	
Operating temperature (°C)	5 to 45		
Service life (km)	Abrasion resistance (km)	150 <sup>+1</sup>	
	Paper cutting (cut)	2,000,000 <sup>+1</sup>	
Dimensions (W×D×H mm)	129.0 × 129.0 × 129.0 <sup>+2</sup>		
Mass (g)	Approx. 1300		
Standard	FCC, CE, VCCI, etc.		
Option	Wall mounting kit, Back plate		
Cash drawer	2 drivers (24V / 1A)		
Body color	2 colors: White / Black		
Software <sup>3</sup>	Printer driver, OPOS, POS for .Net, Linux®, Android™ (SDK), iOS (SDK)		

\*1 Use recommended thermal papers. \*2 Excluding protrusion. \*3 Please see P.29 for details.

## RP-E10 DISPLAY

### Stand-by mode

Selectable color options include green, blue, aqua, and off (for lower power consumption).



### Error status

Error notifications are displayed in yellow, purple, and red, using various flashing patterns. An optional buzzer sound is also available with variable settings to enhance error notifications.



Low Voltage

24 Volt

Mobile Printer

POS Printer

Standalone Printer Unit

Panel-Mount Printer Unit

Sub-assembled Printer Unit

Serial Printer

Other Models Line up

POS Printer

# RP-D10 Series



- Dual purpose: Paper top-exit and front-exit (IPx1)
- Compact cube: 129mm × 129mm × 129mm
- Max printing speed: 200mm/sec
- Energy saving: ENERGY STAR® compliant
- Paper saving: Receipt top space = 2mm (min.)
- Wide variety of driver and utility software suite



RP-D10



Model		RP-D10
Printing	Method	Thermal line dot printing
	Number of dots/line	576
	Resolution (dots/mm)	203 (8 dots / mm)
	Paper width (mm)	58 <sup>+0</sup> <sub>-1</sub> / 80 <sup>+0</sup> <sub>-1</sub>
	Printing width (mm)	54 / 72
	Speed (mm/sec) max	200
	Outside diameter of paper roll (mm) max	φ 83
	Inside diameter of paper roll (mm)	φ 12
	Character matrix (H×W dots)	24 × 12, 24 × 24, 16 × 8, 16 × 16
	Character dimensions (H×W mm)	3.0 × 1.5, 3.0 × 3.0, 2.0 × 1.0, 2.0 × 2.0
Type of Paper	Roll paper	
Character type	Code page: 14pages, Optional font, Downloaded character, User-defined character, JIS 1 & 2 level kanji, Special character	
Bar code	UPC-A/E, JAN (EAN) 8/13, ITF, CODE39, CODABAR, CODE93, CODE128, PDF417, QR Code	
Power supply (V)	Specified AC adapter, External power (DC24V +/- 5%)	
Communication interface	USB, Serial, USB+Serial, Powered USB, Ethernet, Bluetooth®	
Input buffer	4k bytes	
Command	ESC/POS™ conformity, Markup Language	
Cutting	Methods	Slide type
	Cutting type	Full cut, Partial cut (Leave center point)
Operating temperature (°C)		5 to 45
Service life (km)	Abrasion resistance (km)	100 <sup>+1</sup>
	Paper cutting (cut)	1,500,000 <sup>+2</sup>
Dimensions (W×D×H mm)		129.0 × 129.0 × 129.0 <sup>+3</sup>
Mass (g)		Approx. 850
Standard		FCC, CE, VCCI, etc.
Option		Wall mounting kit, Back plate
Cash drawer		2 drivers (24V / 1A)
Body color		2 colors: White / Black
Software <sup>*4</sup>		Printer driver, OPOS, POS for .Net, Linux®, Android™ (SDK), iOS (SDK)

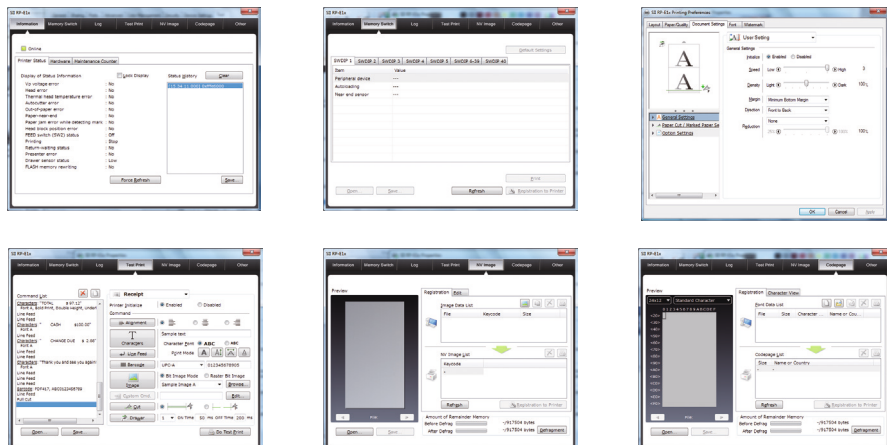
\*1 Use recommended thermal papers. \*2 Vary according to thermal paper. \*3 Excluding protrusion. \*4 Please see P.29 for details.

## RP-E10 / RP-D10 SOFTWARE TOOLS

Convenient software tools available for assisting application development.

### Utility soft (Build on the Windows® driver)

Memory SW setting, LOG management, USB serial ID setting, NV image registration, Code page registration



Low Voltage  
24 Volt  
Mobile Printer  
POS Printer  
Standalone Printer Unit  
Panel-Mount Printer Unit  
Sub-assembled Printer Unit  
Serial Printer  
Other Models Line up

POS Printer

# RP-E10/RP-D10 Series

Receipt, slip, ticket and more. RP-E10/RP-D10 series is ideal printer for many applications.

## Supermarket



High performance printing to speed up checkout process, and improve business efficiency.

## Apparel store



\*install under the counter

Compact design to fits into any tiny space, even under the counter.

## Kitchen



Water proof (IPX1): Receipt front-exit model only

By the water proof design, RP-E10 / RP-D10 performs as a kitchen printer.

## iOS/Android™/Windows® & Bluetooth®

With the stylish and compact design, RP series performs a key role in smart device POS system. The Bluetooth® interface and software SDK for Android™, Windows® and iOS devices provide a best solution for your system.



Apple MFi Certified



"Made for iPod", "Made for iPhone", "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod, iPhone and iPad respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

### OPTION

## Wall mount kit

The smallest printer fits any place, even on the wall.

## Back plate (Black / White)

Cables on back side can be neatly covered by this option.



Wall mount kit



Low Voltage

24 Volt

Mobile Printer

POS Printer

Standalone Printer Unit

Panel-Mount Printer Unit

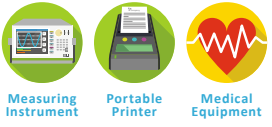
Sub-assembled Printer Unit

Serial Printer

Other Models Line up

Standalone Printer Unit

# DPU-414



- Max printing speed: 52.5 character/sec
- Available international character
- Interface: Serial and parallel



DPU-414

Model		DPU-414-40B
Printing	Method	Thermal serial dot printing
	Number of dots/line (H×W)	9 × 320
	Paper width (mm)	112 <sup>*0</sup>
	Printing width (mm)	89.6
	Speed (character/sec) max	52.5
	Character matrix (H×W dots)	9 × 7
	Character size (H×W mm)	2.5 × 1.9, 2.5 × 0.9 (Condensed)
	Number of columns	40, 80 (Condensed)
Character type		Extended graphics character set, Alphanumeric, International characters, Katakana character set
Power supply (V)		Option: Specified AC adapter, Ni-MH battery
Battery		Without (option)
Communication interface		Parallel (36pins Amphenol), Serial (9pins D-SUB)
Input buffer		28K bytes
Command		ESC/P™ conformity
Cutting		Tear bar
Operating temperature (°C)		0 to 40
Service life (line)		500,000 <sup>*1</sup>
Dimensions (W×D×H mm)		160.0 × 170.0 × 66.5 (printer unit only) <sup>*2</sup>
Mass (g)		Approx. 580 (without Battery)
Standard		FCC, CE, VCCI, CCC
Option		AC adapter, Battery

\*1 Use recommended thermal papers. \*2 Excluding protrusion.

## Serial interface specification

Item	Specification
Baud rate	75, 110, 150, 300, 600, 1200, 2400, 4800, 9600, 19200bps
Data bit	7bits, 8bits
Parity bit	Odd, Even, or None
Stop bit	1bit
Control method	H/W BUSY, Xon/Xoff

## Parallel interface specification

Item	Specification
Synchronization	Synchronized with STROBE signal
Handshaking	Synchronized with ACK and BUSY signal
Signal level	TTL level

Low Voltage

24 Volt

Mobile Printer

POS Printer

Standalone Printer Unit

Panel-Mount Printer Unit

Sub-assembled Printer Unit

Serial Printer

Other Models Line up

Panel-Mount Printer Unit

# DPU-D Series



Measuring Instrument



Barcode



Medical Equipment

- Max printing speed: 100mm/sec (DPU-D2)  
80mm/sec (DPU-D3)
- Small and compact design
- Panel-mount type
- Easy paper operation
- Wide variety of driver software



DPU-D2



DPU-D3

Model	DPU-D2-00A	DPU-D3-00A
Method	Thermal line dot printing	
Number of dots/line	384	576
Resolution (dots/mm)	8	
Paper width (mm)	58 <sup>+0</sup> <sub>-1</sub>	80 <sup>+0</sup> <sub>-1</sub>
Printing width (mm)	48	72
Speed (mm/sec) max	100 (8.5V)	80 (8.5V)
Character matrix (H×W dots)	24 × 24, 24 × 12, 16 × 16, 16 × 8	
Character size (H×W mm)	3.0 × 3.0, 3.0 × 1.5, 2.0 × 2.0, 2.0 × 1.0	
Number of columns	16, 32, 24, 48	24, 48, 36, 72
Character type	Extended graphics character, Katakana character set, CP1252, Optional font, Downloaded character, User-defined character, JIS 1 & 2 level kanji	
Bar code	UPC-A/E, JAN (EAN) 8/13, ITF, CODE39, CADABAR, CODE93, CODE128, PDF417, QR Code, MaxiCode, Data Matrix	
Power supply (V)	Driving voltage (5.0 to 9.0)	
Communication interface	Serial / USB	
Input buffer	4,096 bytes	
Command	ESC/POS™ conformity	
Cutting	Tear bar	
Operating Temperature (°c)	-10 to 50	
Service life (km)	50 <sup>*1</sup>	
Dimensions (W×D×H mm)	80.0 × 68.8 × 85.5 <sup>*2</sup>	102.0 × 68.8 × 85.5 <sup>*2</sup>
Mass (g)	Approx. 180	Approx. 210
Software <sup>*3</sup>	Printer Driver	

\*1 Use recommended thermal papers. \*2 Excluding protrusion. \*3 Please see P.29 for details.

### Serial interface specification

Item	Specification
Baud rate <sup>*3</sup>	9600, 19200, 38400, 115200
Data bit	8 bits
Parity bit <sup>*3</sup>	Odd, Even or None
Stop bit	1 bit
Control method <sup>*3</sup>	BUSY, Xon/Xoff

\*3 Select by utility software.

### USB interface specification

USB printer-class 2.0 conformity

Low Voltage

24 Volt

Mobile Printer

POS Printer

Standalone Printer Unit

Panel-Mount Printer Unit

Sub-assembled Printer Unit

Serial Printer

Other Models Line up



Sub-assembled Printer Unit

# APU-G247



Barcode

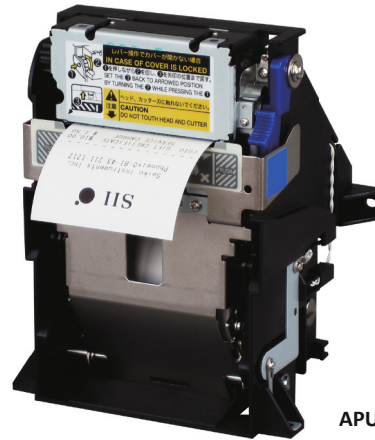


KIOSK System



Gas POS

- Max. printing speed: 150mm/sec
- Roll paper capacity: up to  $\phi 83$ mm
- Easy paper operation
- Interface: Serial or USB model
- Wide variety of driver software



APU-G247

Model		APU-G247
Printing	Method	Thermal line dot printing
	Number of dots/line	432
	Resolution (dots/mm)	8
	Paper width (mm)	58 <sup>+0</sup> <sub>-1</sub>
	Printing width (mm)	54
	Speed (mm/sec) max	150
	Paper path	Curved
	Character matrix (H×W dots)	24 × 24, 24 × 12, 16 × 16, 16 × 8
Character dimensions (H×W mm)	3.0 × 3.0, 3.0 × 1.5, 2.0 × 2.0, 2.0 × 1.0	
Character type	Extended graphics character set, Katakana character set, Optional font, Downloaded character, User-defined character, JIS 1 & 2 level kanji	
Bar code	UPC-A/E, JAN (EAN) 8/13, ITF, CODE39, CODABAR, CODE93, CODE128, PDF417, QR Code	
Power supply (V)	21.6 to 26.4	
Communication interface	Serial (RS-232C) or USB	
Input buffer	1023 bytes	
Command	SII standard	
Cutting	Method	Slide type
	Cutting type	Partial cut / Full cut
Service life	Pulse activation (pulse)	100 million
	Abrasion resistance (km)	100 <sup>*1</sup>
	Paper cutting (cut)	1,000,000 <sup>*1</sup>
Operating temperature (°C)	0 to 50	
Dimensions (W×D×H mm)	98.4 × 95.5 × 148.0 <sup>*2</sup>	
Mass (g)	Approx. 525	
Software <sup>*3</sup>	Printer Driver, OPOS	

\*1 Use recommended thermal papers. \*2 Excluding protrusion. \*3 Please see P.29 for details.

## Serial interface specification

Item	Specification
Baud rate	115200 bps
Data bit	8 bits
Parity bit	None
Stop bit	1bit
Control method	H/W BUSY, Xon/Xoff

## USB interface specification

USB printer-class 2.0 conformity

Low Voltage

24 Volt

Mobile Printer

POS Printer

Standalone Printer Unit

Panel-Mount Printer Unit

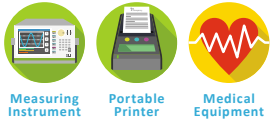
Sub-assembled Printer Unit

Serial Printer

Other Models Line up

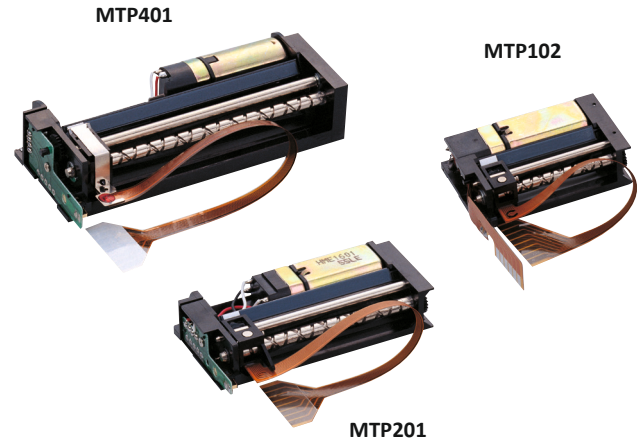
Serial Printer

# MTP Series



Measuring Instrument    Portable Printer    Medical Equipment

- Extremely compact and light-weight
- High reliability
- Shuttle head type



Model	MTP102-16B	MTP201-20B	MTP201-24B	MTP401-40B	MTP201-G166
Type	Character				Graphic
Method	Thermal serial dot printing				
Paper width (mm)	38 <sup>+0</sup> <sub>-1</sub>	58 <sup>+0</sup> <sub>-1</sub>		80 <sup>+0</sup> <sub>-1</sub>	58 <sup>+0</sup> <sub>-1</sub>
Printing width (mm)	26.4	45.9	46	66.7	46
Speed (line/sec) max	1.2	1.0	0.9	0.5	0.9
Paper path	Curved				
Character matrix (H×W dots)	7 × 5				
Character size (H×W mm)	2.4 × 1.2	2.4 × 1.6	2.4 × 1.4	2.4 × 1.2	2.4 × 1.4
Number of columns	16	20	24	40	24
Direction	Left to right				
Timing	Synchronized with the tachogenerator				
Line spacing (mm)	3.8				2.8
Character spacing (dot)	2				0
Detection	Mechanical switch				
Power supply (V)	4.0 to 6.0				
Peak current (A)	3.2 (5V on)				
Service life (Lines)	500,000 <sup>*1</sup>				
Operating temperature (°C)	0 to 50				
Dimensions (W×D×H mm)	48.0 × 31.0 × 13.8 <sup>*2</sup>	70.0 × 34.0 × 14.4 <sup>*2</sup>		91.5 × 35.5 × 20.0 <sup>*2</sup>	70.0 × 34.0 × 14.4 <sup>*2</sup>
Mass (g)	Approx. 35	Approx. 40		Approx. 50	Approx. 40

\*1 Use recommended thermal papers. \*2 Excluding protrusion.

- Low Voltage
- 24 Volt
- Mobile Printer
- POS Printer
- Standalone Printer Unit
- Panel-Mount Printer Unit
- Sub-assembled Printer Unit
- Serial Printer
- Other Models Line up

Thermal Printer Mechanism

## LTPA245 Low Voltage



- Max printing speed: 90mm/sec
- Compact and light-weight
- Platen latch function



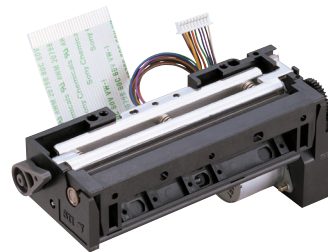
LTPA245

Thermal Printer Mechanism

## LTPV Series Low Voltage



- Max printing speed: 85mm/sec
- Platen latch function
- Label printing
- Support thick paper: up to 135µm



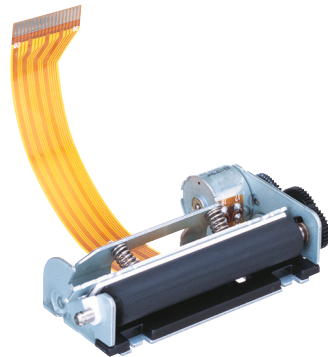
LTPV345

Thermal Printer Mechanism

## LTP8235 Low Voltage



- Max printing speed: 60mm/sec
- Compact and light-weight
- Resolution: 6 dots/mm
- Loading type



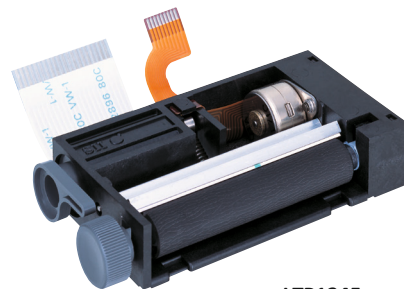
LTP8235

Thermal Printer Mechanism

## LTP1245 Low Voltage



- Max printing speed: 62.5mm/sec
- Compact and light-weight
- Paper feed knob model available
- Straight and curved path models available
- Operating temperature: -30°C to 70°C



LTP1245

Low Voltage

24 Volt

Mobile Printer

POS Printer

Standalone Printer Unit

Panel-Mount Printer Unit

Sub-assembled Printer Unit

Serial Printer

Other Models Line up

# Other Models Lineup

Thermal Printer Mechanism

## LTPH245 Low Voltage



- Max printing speed: 62.5mm/sec
- Easy paper operation
- Platen latch function
- Operating temperature: -30°C to 70°C



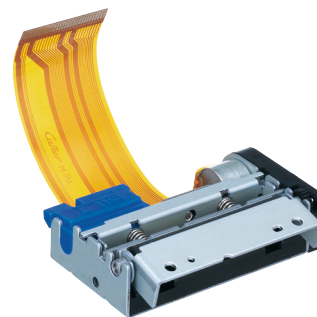
LTPH245

Thermal Printer Mechanism

## LTPC Series Low Voltage



- Max printing speed: 65mm/sec
- Easy paper operation
- Lineup of head resolution: 6 dots/mm and 8 dots/mm



LTPC245

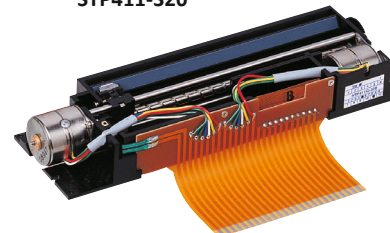
Thermal Printer Mechanism

## STP411 Low Voltage



- Compact and light-weight
- High-quality and high reliability
- Individual motors for moving head and feeding paper.
- Quiet printing by stepping motor.

STP411-320

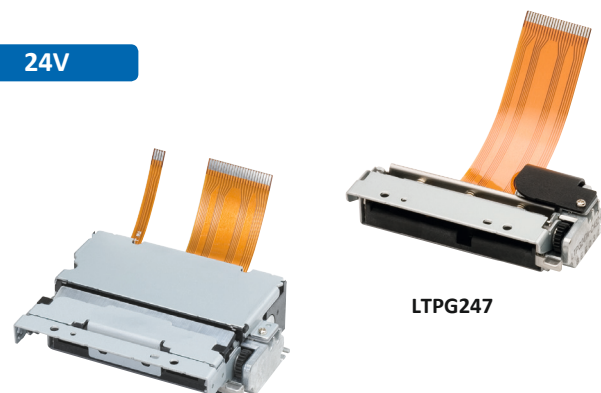


Thermal Printer Mechanism

## CAPG247 / LTPG247 24V



- Max printing speed: 150mm/sec
- Platen latch function
- Windows® driver (XP/Vista) \*32bit
- OPOS driver (XP) \*In use with IFG001-03SK
- Linux® driver



CAPG247  
(with autocoder model)

LTPG247

Low Voltage

24 Volt

Mobile Printer

POS Printer

Standalone Printer Unit

Panel-Mount Printer Unit

Sub-assembled Printer Unit

Serial Printer

Other Models Line up

## Thermal Printer Mechanism

# LTP2000 Series 24V



- Max printing speed (LTP2242) : 90mm/sec
- Straight and curved path models available
- Label printing
- Support thick paper: up to 135µm (Straight path model only)



## Mobile Printer

# MPU-L465 Series



- Max printing speed: 85mm/sec
- High resolution: 300dpi
- Adjustable paper width: 70 to 115mm
- Operating temperature: -15°C to 50°C
- Interface: Bluetooth®, USB, Serial
- Easy paper operation
- Windows® driver (XP) \*32bit



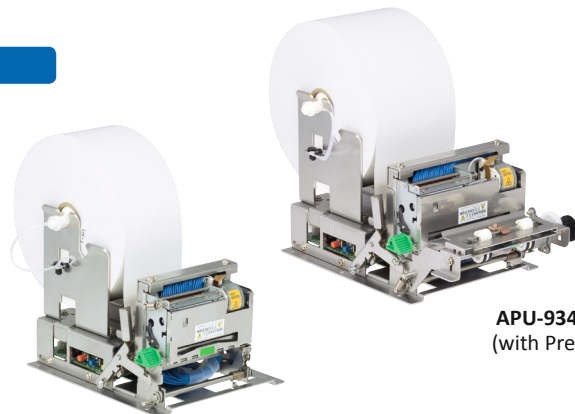
**MPU-L465-16**  
(Bluetooth® model)  
**MPU-L465-02**  
(Standard model)

## Sub-assembled printer Unit

# APU-9000-C Series 24V



- Max. printing speed: 250mm/sec
- Roll paper capacity: up to φ152.4mm (6inch)
- Interface: Serial, USB model
- Operating temperature : -20°C to 60°C
- Wide variety of driver software



APU-9247-C01

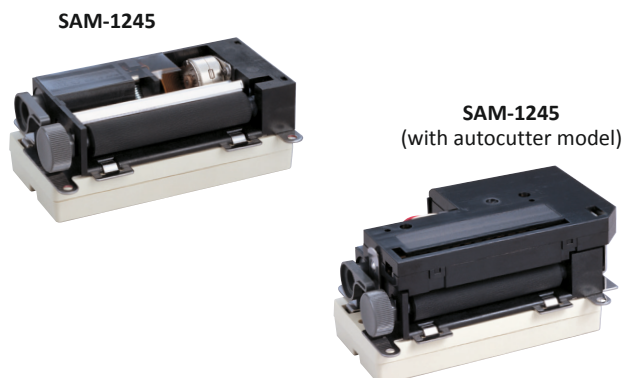
APU-9347-C02  
(with Presenter)

## Sub-assembled printer Unit

# SAM-1245 Low Voltage



- Max printing speed: 60mm/sec
- Compact and light-weight
- Available built-in auto cutter model



SAM-1245

SAM-1245  
(with autocutter model)

Low Voltage

24 Volt

Mobile Printer

POS Printer

Standalone  
Printer Unit

Panel-Mount  
Printer Unit

Sub-assembled  
Printer Unit

Serial Printer

Other Models  
Line up

# Associated software tool

Printer Model	Interface Board / Control Chip Set	Communication interface	Windows®																Linux®		Windows® CE	Android™ SDK	iOS SDK		
			Printer Driver						OPOS				POS for .Net						CUPS	SDK					
			8.1/8		7		VISTA		Xp	8.1/8	7	VISTA	Xp	8.1/8		7		VISTA	Xp	*2					
			64 bit	32 bit	64 bit	32 bit	64 bit	32 bit	32 bit	32 bit	32 bit	32 bit	32 bit	32 bit	64 bit	32 bit	64 bit	32 bit	32 bit	32 bit				32 bit	
CAPM347	IFM201	Serial/USB	✓	✓	✓	✓	-	✓	✓	✓	✓	-	✓	Δ	Δ	Δ	Δ	-	-	✓	✓	-	-	-	
	PTM20(with CGJG-01)	Serial/USB	✓	✓	✓	✓	-	✓	✓	✓ <sup>1</sup>	✓ <sup>1</sup>	-	✓ <sup>1</sup>	Δ	Δ	Δ	Δ	-	-	✓	✓	-	-	-	
CAPD247 LTPD247	IFD001	Serial/USB	✓	✓	✓	✓	-	✓	✓	Δ	✓	-	✓	✓	✓	✓	-	-	✓	✓	-	-	-		
CAPD347 LTPD347	PTD00(with PTJCGG2)	Serial/USB	✓	✓	✓	✓	-	✓	✓	Δ <sup>1</sup>	✓ <sup>1</sup>	-	✓ <sup>1</sup>	✓	✓	✓	✓	-	-	✓	✓	-	-	-	
CAPD245 LTPD245	IFD501	Serial/USB	✓	✓	✓	✓	-	✓	✓	Δ	✓	-	✓	-	-	-	-	-	✓	✓	-	-	-		
CAPD345 LTPD345	PTD50(with PTJCGG2)	Serial/USB	✓	✓	✓	✓	-	✓	✓	Δ <sup>1</sup>	✓ <sup>1</sup>	-	✓ <sup>1</sup>	-	-	-	-	-	✓	✓	-	-	-		
CAP9247 LTP9247 CAP9347	IF9001	Serial/USB	✓	✓	✓	✓	-	✓	✓	-	-	-	✓	-	-	-	-	-	✓	✓	-	-	-		
CAPG247 LTPG247	IFG001	Serial/USB	-	-	✓	✓	-	✓	✓	-	-	-	✓	-	-	-	-	-	-	-	-	-	-		
	PTG00(with PTJCGG2)	Serial/USB	-	-	✓	✓	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DPU-S245 DPU-S445		Serial	✓	✓	✓	✓	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	✓ <sup>3</sup>	-	-	
		USB	✓	✓	✓	✓	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	✓ <sup>3</sup>	3.1 to 4.4	-
		Bluetooth®	✓ <sup>5</sup>	✓ <sup>5</sup>	✓ <sup>5</sup>	✓ <sup>5</sup>	-	✓ <sup>5</sup>	✓ <sup>5</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	✓ <sup>3</sup>	2.3.3 to 4.4	-
MPU-L465		Serial/USB	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	✓ <sup>4</sup>	-	-	
DPU-D2 DPU-D3		Serial/USB	✓	✓	✓	✓	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
APU-G247		Serial/USB	-	-	✓	✓	-	✓	✓	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	
APU-9247-C APU-9347-C		Serial/USB	✓	✓	✓	✓	-	✓	✓	-	-	-	✓	-	-	-	-	-	-	✓	✓	-	-	-	
RP-D10		Serial	✓	✓	✓	✓	-	✓	✓	✓	✓	-	✓	-	-	-	-	-	✓	✓	✓	-	-	-	
		USB	✓	✓	✓	✓	-	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	-	✓	✓	✓	-	-	3.1 to 4.4	-
		Ethernet	✓	✓	✓	✓	-	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	-	✓	✓	✓	-	-	3.1 to 4.4	7.0 to 8.1
		Bluetooth®	✓ <sup>5</sup>	✓ <sup>5</sup>	✓ <sup>5</sup>	✓ <sup>5</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0 to 5.0
RP-E10/RP-E11		Serial	✓	✓	✓	✓	-	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	
		USB	✓	✓	✓	✓	-	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	3.1 to 4.4	-
		Ethernet	✓	✓	✓	✓	-	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	3.1 to 4.4	7.0 to 8.1
		Bluetooth®	✓ <sup>5</sup>	✓ <sup>5</sup>	✓ <sup>5</sup>	✓ <sup>5</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0 to 5.0

Δ : Development plan

\*1: Perform when in use of SII CG-ROM  
 \*2: Supported distribution type is different with each Printer Model.  
 \*3: Windows® CE 5.0 / Windows® Embedded CE 6.0 (include Windows Mobile® 5.0/6.0)  
 \*4: Windows Mobile® 2003/2003 Second Edition  
 \*5: Depending on Bluetooth® module on host device



## Anytime, Anywhere!!

SII Thermal Printer

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# SII



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