SII

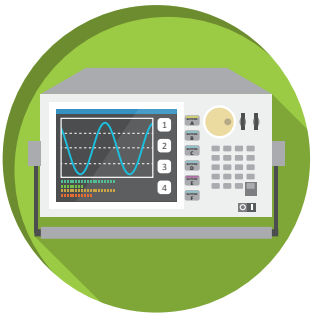
SEIKO
SEIKO HOLDINGS GROUP

Thermal Printer

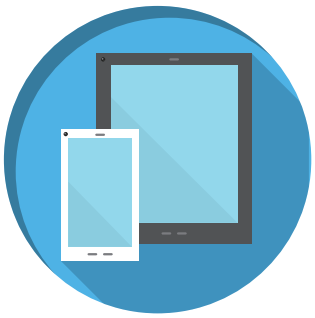
Product catalog 2016-2017

POS/ECR

EFT-POS



Measuring Instrument

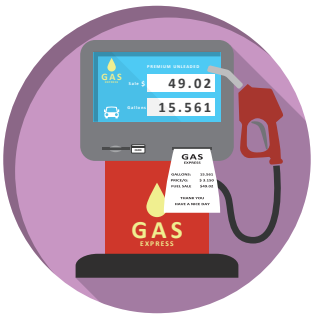


PDA/Smart Device

Barcode

Portable Printer

KIOSK System



Gas-Pos

Label

Ticket Printer

Gaming

Medical Equipment

Seiko Instruments Inc.

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.

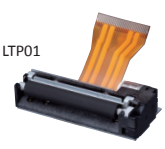
EFT-POS

EFT-POS

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.

LTPJ245



LTP01

LTP02

2 inch
Low Voltage
Small-footprint

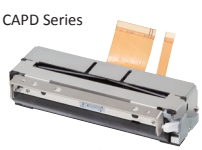
POS/ECR

POS/ECR

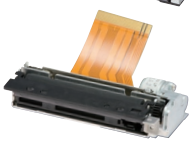
Using thermal printer in ECR (Electronic Cash Register) has been started in European market and Now spread throughout the world!

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

RP-E10



CAPD Series



LTPD Series

2 to 3 inch
High speed printing
Small-footprint

Medical Measuring

Measuring Instrument

Medical Equipment

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.

DPU-414

DPU-D2

2 to 4 inch
Quiet
Chart printing

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

KIOSK System

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

Portable Printer

Demand of Mobile printing is expanding in various applications!

Mobile printing has became 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

2015-2016
Thermal Printer Product Catalog

CONTENTS

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	
24 volt	LTP04	80	8	Easy paper operation mechanism
	LTPF247	58	8	
	LTPF347	80	8	
	CAPD247	58	8	
	CAPD347	80	8	
	LTPD247	58	8	
	LTPD347	80	8	
	CAPM347	58 / 60 / 80 / 83	8	
	CAPM347	58 / 60 / 80 / 83	8	Loading mechanism
	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	–	–	–	–
24 volt	LTP04	ACU04	–	–	–
	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				

Printer Unit

Product category	Product	Power supply	Battery pack	Battery charger	Power cable	Other
Mobile printer	DPU-S245	PW-D0940-W2	BP-L0716	PWC-L07C1	CB-JP04-18A	Carrying case CVR-C01-1
					CB-US04-18A	
					CB-CE01-18B	
					CB-CH01-20A	
					CB-UK01-20A	
	DPU-S445	PW-D0940-W2	BP-L0725	PWC-L07C1	CB-JP04-18A	Carrying case CVR-B01-1
					CB-US04-18A	
					CB-CE01-18B	
					CB-CH01-20A	
					CB-UK01-20A	
POS printer	RP-E10 / E11 RP-D10	PW-E2427-W1 (Outside the US) PW-E2427-W2 (US only)	–	–	CB-JP07-20A	Wall mounting kit WLK-B01-1 Back plate BCP-A01-K BCP-A01-W
					CB-US05-20A	
					CB-CE04-20A	
					CB-UK03-20A	
Standalone printer unit	DPU-414	PW-C0725-W2-U	BP-4005	–	–	–
		PW-C0725-W2-E			–	
		PW-C0725-W2-C			–	
		PW-C0725-W2-K			–	
		PW-C0725-W2-B			–	

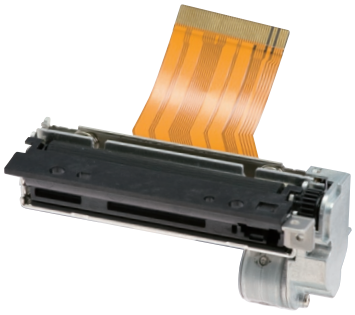
Thermal Printer Mechanism

LTPD245/345

POS/ECR | EFT-POS | Measuring Instrument | Barcode | Portable Printer | Label | Medical Equipment

- **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^{+0}_{-1}	80^{+0}_{-1}
	Printing width (mm)	48	72
	Speed (mm/sec) max	100	80
	Paper path	Curved	
Detection	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	
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*1	
Operating temperature (°C)		-10 to 50*1 *3	
Dimensions (W×D×H mm)	Horizontal	69.0 × 30.0 × 15.0*2	91.0 × 30.0 × 15.0*2
	Vertical	69.0 × 15.0 × 30.0*2	91.0 × 15.0 × 30.0*2
Mass (g)		Approx. 40	Approx. 58

*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)		Vp: 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*4		Printer driver, Linux®	

*4 Please see P.29 for details.

CPU

Model	PTD50P01
Thermal printer	LTPD245, LTPD345, CAPD245, CAPD345
Package form	120pin QFP
Operating voltage (V)	Vp: 4.75 to 9.5, Vcc: 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*6	Printer driver, Linux®

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

IFD501-01UK

IFD501-01SK

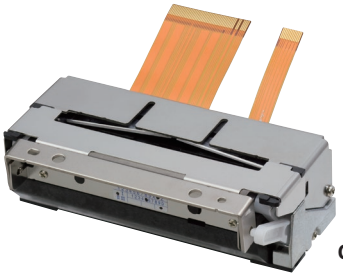
Thermal Printer Mechanism

CAPD245/345

POS/ECR | EFT-POS | Measuring Instrument | Barcode | KIOSK System | Gas POS | Ticket Printer | Medical Equipment

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

CAPD345



CAPD245

Model		CAPD245	CAPD345
Printing	Method	Thermal line dot printing	
	Number of dots/line	384	576
	Resolution (dots/mm)	8	
	Paper width (mm)	58^{+0}_{-1}	80^{+0}_{-1}
	Printing width (mm)	48	72
	Speed (mm/sec) max	100	80
	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)	4.75 to 9.5	6.5 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	
	Cutter	0.7	
Auto cutter	Method	Slide type	
	Paper thickness (μm)	54 to 80*1	
	Cutting type	Full cut / Partial cut (Leave center point)	
	Operating time (sec/cycle) max	Approx. 1.0	
	Cutting pitch (mm) min	10	
	Cut frequency (cut/min) max	30	
Service Life	Pulse activation (pulse)	100 million	
	Abrasion resistance (km)	50*1	
	Paper cutting (cut)	500,000*1	
Operating temperature (°C)		-10 to 50	
Dimensions (W×D×H mm)		83.1 × 35.4 × 26.9*2	105.1 × 35.4 × 27.2*2
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, Linux®

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

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^{+0}_{-1}	
	Printing width (mm)	48	
	Speed (mm/sec) max	75	
	Paper path	Curved	
Detection	Head temperature	By thermistor	
	Platen position	—	By mechanical switch
	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	3.76 (9.5V / 64 dots)	
	Motor	0.6	
Service Life	Pulse activation (pulse)	100 million	
	Abrasion resistance (km)	50*1	
Operating temperature (˚C)		0 to 50	
Dimensions (W×D×H mm)		69.8 × 32.7 × 15.3*2	70.3 × 32.7 × 15.3*2
Mass (g)		Approx. 44	

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

Thermal Printer Mechanism

LTP02

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

LTP02-245

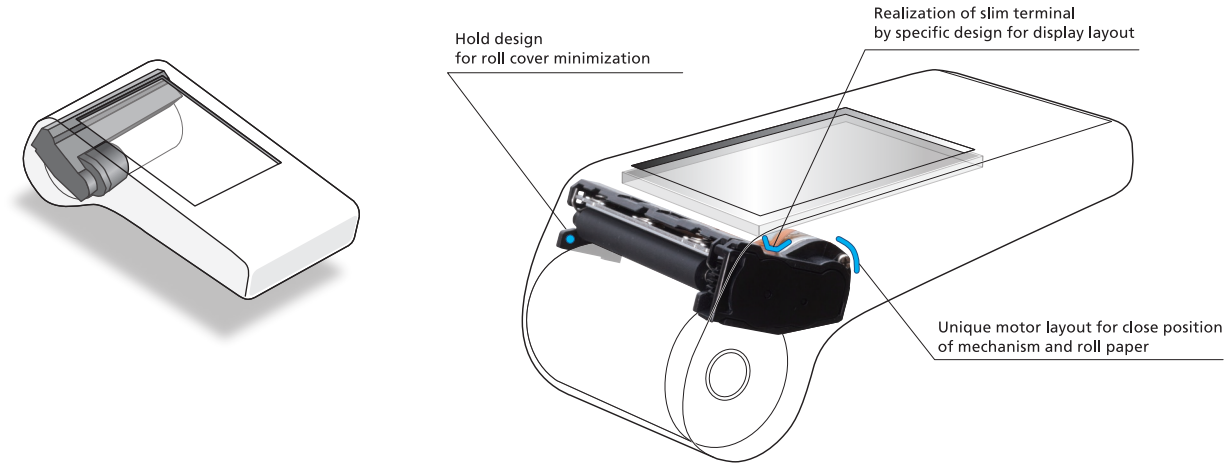
Model		LTP02-245
Printing	Method	Thermal line dot printing
	Number of dots/line	384
	Resolution (dots/mm)	8
	Paper width (mm)	58^{+0}_{-1}
	Printing width (mm)	48
	Speed (mm/sec) max	100
	Paper path	Curved
Detection	Head temperature	By thermistor
	Out of paper	By photo interrupter
Power supply (V)	Operation voltage (Vdd)	3.0 to 3.6
	Operation voltage (Vp)	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*1
Operating temperature (°C)		-10 to 50
Dimensions (W×D×H mm)		67.3 × 18.1 × 30.0*2
Mass (g)		Approx. 28

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

CPU

Model	PT02-5SU
Thermal printer	LTP02-245
Package form	48pin LQFP
Operating voltage (V)	Vp: 5.5 to 9.5, Vcc: 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!



Thermal Printer Mechanism

LTPJ Series

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

LTPJ245D

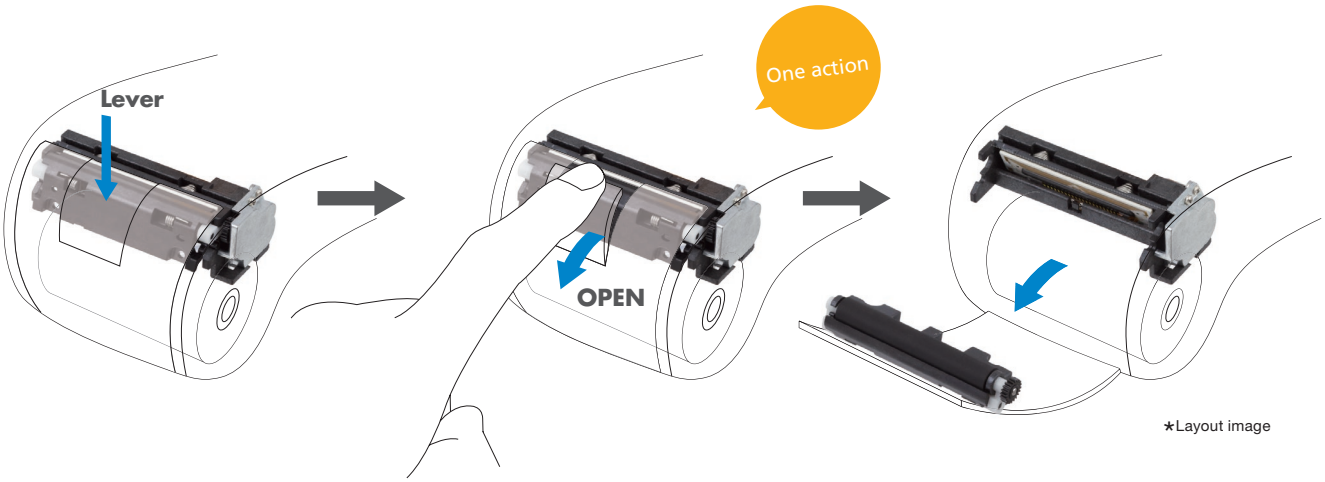
LTPJ245G

Model		LTPJ245D	LTPJ245G
Printing	Method	Thermal line dot printing	
	Number of dots/line	384	
	Resolution (dots/mm)	8	
	Paper width (mm)	58^{+0}_{-1}	
	Printing width (mm)	48	
	Speed (mm/sec) max	75	
	Paper path	Straight	
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	3.0 to 3.6
	Operation voltage (Vp)	5.5 to 9.5	
Peak current (A)	Head	3.6 (9.5V / 64dots)	2.49 (9.5V / 45dots)
	Motor	0.6	
Service Life	Pulse activation (pulse)	100 million	
	Abrasion resistance (km)	50*1	
Operating temperature (°C)		-10 to 50	
Dimensions (W×D×H mm)		68.5 × 31.5 × 22.0*2	68.5 × 36.5 × 22.0*2
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.



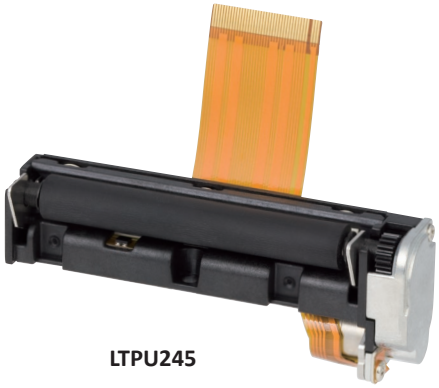
★Layout image

Thermal Printer Mechanism

LTPU245

EFT-POS Portable Printer

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



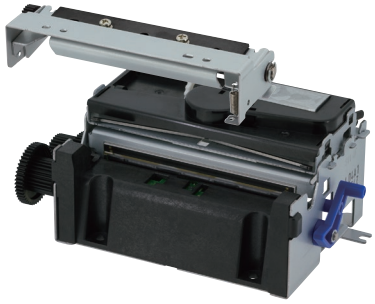
LTPU245

Model		LTPU245
Printing	Method	Thermal line dot printing
	Number of dots/line	384
	Resolution (dots/mm)	8
	Paper width (mm)	58^{+0}_{-1}
	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)	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*1
Operating temperature (˚C)		-10 to 50
Dimensions (W×D×H mm)		69.8 × 17.3 × 25.0*2
Mass (g)		Approx. 30

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

Thermal Printer Mechanism

LTP04



LTP04 / ACU04
(Platen released)

- **Max. printing speed: 250mm/sec**
- **Heavy-duty: 150km, 2mil. cuts**
- **Easy maintenance**
  : Major parts are replaceable without tools

LTP04 / ACU04

Model		LTP04-347
Printing	Method	Thermal line dot printing
	Number of dots/line	576
	Resolution (dots/mm)	8
	Paper width (mm)	80^{+0}_{-1}
	Printing width (mm)	72
	Speed (mm/sec) max	250
Detection	Head temperature	By thermistor
	Platen position	By mechanical switch
	Out of paper	By photo sensor
Power supply (V)	Operation voltage (Vdd)	3.0 to 3.6
	Operation voltage (Vp)	21.6 to 26.4
Peak current (A)	Head	16.7 (26.4V / 384 dots)
	Motor	1.0
Service Life	Pulse activation (pulse)	150 million *1
	Abrasion resistance (km)	150 *1
Operating temperature (°C)		0 to 50
Dimensions (W × D × H mm)		127.6 × 83.0 × 44.1 (55.95 with auto cutter) *2
Mass (g)		Approx. 400

*1 Use recommended thermal papers. *2 Excluding protrusion

Auto cutter

Model		ACU04-37
Thermal printer		LTP04-347
Cutting	Method	Slide type
	Paper width (mm)	80^{+0}_{-1}
	Paper thickness (µm)	60 to 80 *3
	Cutting type	Partial cut (Leave center point)
	Operating time (sec/cycle) max	0.4 (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)		1.3
Life (Cut)		2,000,000 *4
Dimensions (W × D × H mm)		95.6 × 39.0 × 16.2
Mass (g)		Approx. 100

*3 Use recommended thermal papers *4 Depending upon specified conditions.

Thermal Printer Mechanism

CAPM Series

POS/ECR | Measuring Instrument | Barcode | KIOSK System | Ticket Printer | Gaming

- 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^{+0}_{-1} / 60^{+0}_{-1} / 80^{+0}_{-1} / 83^{+0}_{-1}			
	Printing width (mm)	54 / 56 / 72 / 80			
	Speed (mm/sec) max	300*1	280*1	300*1	280*1
Detection	Head temperature	By thermistor			
	Head position	By mechanical switch			
	Out of paper	By photo interrupter			
	Mark position	By photo interrupter*1			
	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)*1	54 to 90*2	100 to 150*2	54 to 90*2	100 to 150*2
	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*2	100*2	200*2	100*2
	Paper cutting (cut)	2,000,000*2	1,000,000*2	2,000,000*2	1,000,000*2
Operating temperature (°C)		-20 to 60*1	-20 to 60*1	-20 to 60*1	-20 to 60*1
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*3	Printer driver, OPOS, POS for .NET, Linux®	

*3 Please see P.29 for details.

Loading Model

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*4 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*5	Printer driver, OPOS, POS for .NET, Linux®

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

Easy Paper Operation Model

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

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^{+0}_{-1}	80^{+0}_{-1}
	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	
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
Service Life	Pulse activation (pulse)	100 million	
	Abrasion resistance (km)	100*1	
Operating temperature (°C)		-10 to 50	
Dimensions (W×D×H mm)	Horizontal	71.0 × 30.0 × 15.0*2	91.0 × 30.0 × 15.0*2
	Vertical	71.0 × 15.0 × 30.0*2	91.0 × 15.0 × 30.0*2
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)		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
	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*4		Printer driver, OPOS, POS for .NET, Linux®	

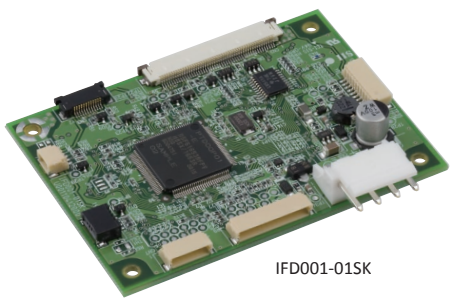
*4 Please see P.29 for details.

CPU

Model	PTD00P01
Thermal printer	LTPD247, LTPD347, CAPD247, CAPD347
Package form	120pin QFP
Operating voltage (V)	Vp: 21.6 to 26.4, Vcc: 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*6	Printer driver, OPOS, POS for .NET, Linux®

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

IFD001-01UK



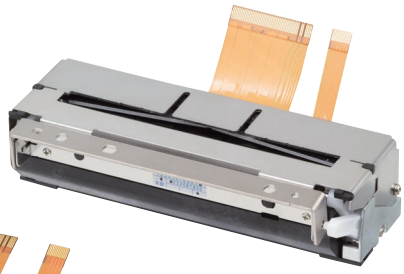
IFD001-01SK

Thermal Printer Mechanism

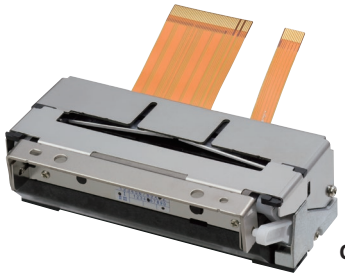
CAPD247/347

POS/ECR | EFT-POS | Measuring Instrument | Barcode | KIOSK System | Gas POS | Ticket Printer | Medical Equipment

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



CAPD347



CAPD247

Model		CAPD247	CAPD347
Printing	Method	Thermal line dot printing	
	Number of dots/line	432	576
	Resolution (dots/mm)	8	
	Paper width (mm)	58^{+0}_{-1}	80^{+0}_{-1}
	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*1	
	Cutting type	Full cut / Partial cut (Leave center point)	
	Operating time (sec/cycle) max	Approx. 0.5	
	Cutting pitch (mm) min	10	
	Cut frequency (cut/min) max	30	
Service Life	Pulse activation (pulse)	100 million	
	Abrasion resistance (km)	100*1	
	Paper cutting (cut)	1,000,000*1	
Operating temperature (°C)		-10 to 50	
Dimensions (W×D×H mm)		83.1 × 35.4 × 26.9*2	105.1 × 35.4 × 27.2*2
Mass (g)		Approx. 131	Approx. 154

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

Interface / CPU *3

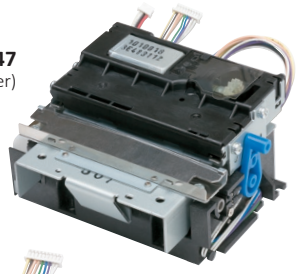
	Model
USB interface board	IFD001-01UK
Serial interface board	IFD001-01SK
CPU	PTD00P01
Software*4	Printer driver, OPOS, POS for .NET, Linux®

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

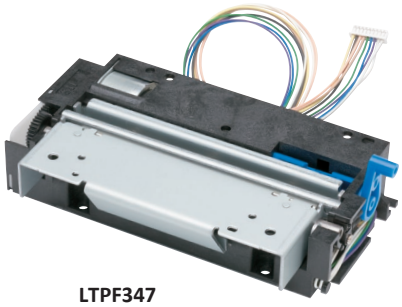
Thermal Printer Mechanism

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^{+0}_{-1}		80^{+0}_{-1}	
	Printing width (mm)	54		72	
	Speed (mm/sec) max	220	100	220	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 (Vdd)	4.75 to 5.25			
	Operation voltage (Vp)	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*1			
Operating temperature (°C)		0 to 50			
Dimensions (W×D×H mm)		86.2 × 54.0 × 25.8*2		110.2 × 54.0 × 25.8*2	
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)		Vp: 21.6 to 26.4, Vcc: 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)	Vp: 21.6 to 26.4, Vcc: 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*3 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^{+0}_{-1}		80^{+0}_{-1}	
	Paper thickness (µm)	60 to 80*4			
	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*5			
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.

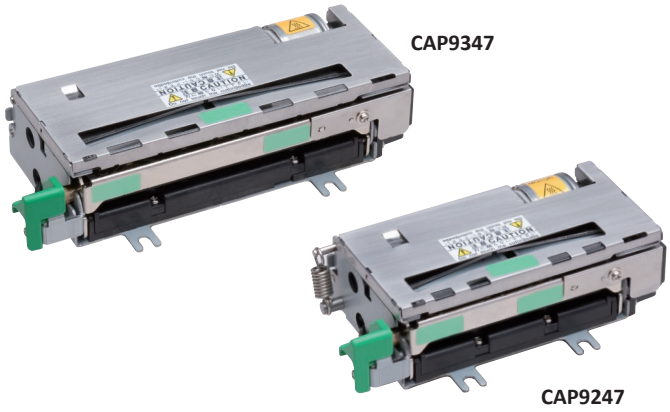
Winder unit

Model	WU282
Thermal Printer	LTPF247F
Paper width (mm)	58^{+0}_{-1}
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

- **Max printing speed: 250mm/sec**
- **Compact 2”, 3” heavy-duty mechanism**
- **Support thick paper: up to 155µm**[*1]
  (Straight path model only)
- **Operation temperature: -20˚C to 60˚C**



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^{+0}_{-1} / 60^{+0}_{-1}	80^{+0}_{-1} / 82.5^{+0}_{-1}	58^{+0}_{-1} / 60^{+0}_{-1}
	Printing width (mm)	54 / 56	76 / 80	54 / 56
	Speed (mm/sec) max	250		
	Paper path	Curved / Straight		
Detection	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		
	Cutter	1.2		—
Auto cutter	Method	Slide type		—
	Paper thickness (µm)	57 to 155[*1]		—
	Cutting type	Full cut / Partial cut (Leave center point)		—
	Operating time (sec/cycle) max	2		—
	Cutting pitch (mm)min	10		—
	Cut frequency (cut/min) max	30		—
Service Life	Pulse activation (pulse)	150 million		
	Abrasion resistance (km)	150[*1]		
	Paper cutting (cut)	1,000,000[*1]		—
Operating temperature (˚C)		-20 to 60		
Dimensions (W×D×H mm)		89.5 × 50.0 × 30.0[*2]	112.0 × 50.0 × 30.0[*2]	88.8 × 50.0 × 29.7[*2]
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, Linux®	

*Please see P.29 for details.

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**

Made for iPod iPhone iPad

Model		DPU-S245	DPU-S445
Printing	Method	Thermal line dot printing	
	Number of dots/line	384	832
	Resolution (dots/mm)	8	
	Paper width (mm)	58^{+0}_{-1}	112^{+0}_{-1}
	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*2	
Dimensions (W×D×H mm)		83 × 130 × 45*3	145.0 × 135.0 × 58.0*3
Mass (g)		Approx. 280*4	Approx. 490*4
Standard		FCC, CE, VCCI, CCC*5	
Option		AC adapter, Battery pack, Battery charger, AC cable, USB cable, Serial cable, Carrying case	
Software*6		Printer driver, Windows® CE (SDK), Android™ (SDK), iOS (SDK)	

*1 Only Bluetooth® model. *2 Use recommended thermal papers. *3 Excluding protrusion. *4 Including battery, excluding roll paper. *5 DPU-Sx45-00B-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. 2.1 + 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

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.

POS Printer

RP-E10 Series

POS/ECR | Measuring Instrument | Barcode | KIOSK System | Medical Equipment | Gaming

- **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)

RP-E10

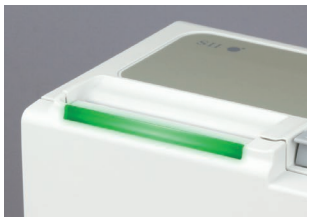
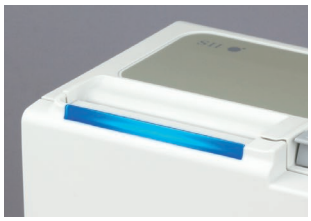
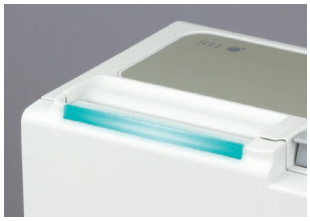
Model		RP-E10 (Receipt top-exit)	RP-E11 (Receipt front-exit)
Printing	Method	Thermal line dot printing	
	Number of dots/line	576	
	Resolution (dots/mm)	203 (8 dots / mm)	
	Paper width (mm)	58^{+0}_{-1} / 80^{+0}_{-1}	
	Printing width (mm)	54 / 72	
	Speed (mm/sec) max	350	
	Outside diameter of paper roll (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	
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*1	
	Paper cutting (cut)	2,000,000*1	
Dimensions (W×D×H mm)		129.0 × 129.0 × 129.0*2	
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*3		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

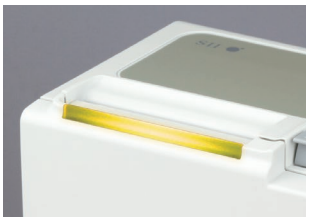
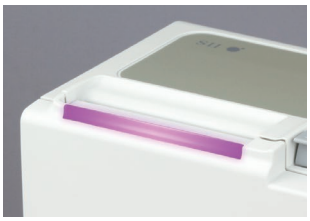
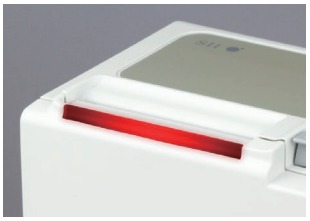
Stand-by mode

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.

POS Printer

RP-D10 Series

POS/ECR | Measuring Instrument | Barcode | KIOSK System | Medical Equipment | Gaming

- **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

ENERGY STAR

Made for iPod iPhone iPad

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^{+0}_{-1} / 80^{+0}_{-1}
	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 (℃)		5 to 45
Service life (km)	Abrasion resistance (km)	100*1
	Paper cutting (cut)	1,500,000*2
Dimensions (W×D×H mm)		129.0 × 129.0 × 129.0*3
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*4		Printer driver, OPOS, POS for .NET, Linux®, Android™ (SDK), iOS (SDK)

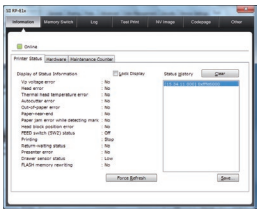
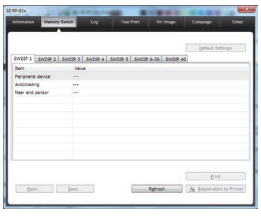
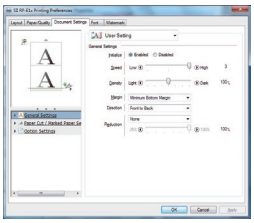
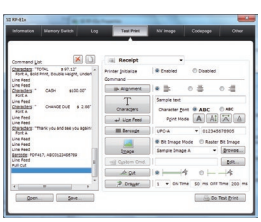
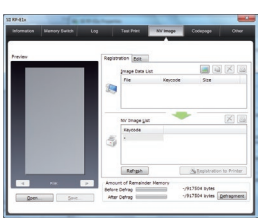
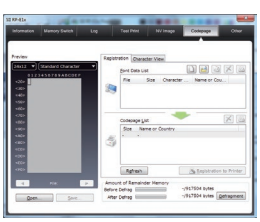
*1 Use recommended thermal papers. *2 Vary according to thermal paper. *3 Excluding protrusion. *4 Please see P.29 for details.

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

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

Standalone Printer Unit

DPU-414

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

DPU-414

Model		DPU-414-50B
Printing	Method	Thermal serial dot printing
	Number of dots/line (H×W)	9 × 320
	Paper width (mm)	112^{+0}_{-1}
	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*1
Dimensions (W×D×H mm)		160.0 × 170.0 × 66.5 (printer unit only)*2
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

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**

DPU-D2

DPU-D3

Model		DPU-D2-00A	DPU-D3-00A
Printing	Method	Thermal line dot printing	
	Number of dots/line	384	576
	Resolution (dots/mm)	8	
	Paper width (mm)	58^{+0}_{-1}	80^{+0}_{-1}
	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, CODABAR, 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*1	
Dimensions (W×D×H mm)		80.0 × 68.8 × 85.5*2	102.0 × 68.8 × 85.5*2
Mass (g)		Approx. 180	Approx. 210
Software*3		Printer Driver	

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

Serial interface specification

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

*3 Select by utility software.

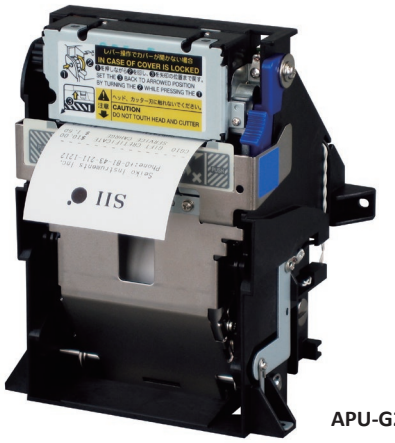
USB interface specification

USB printer-class 2.0 conformity

Sub-assembled Printer Unit

APU-G247

- Max. printing speed: 150mm/sec
- Roll paper capacity: up to ϕ83mm
- Easy paper operation
- Interface: Serial or USB model



APU-G247

Model		APU-G247
Printing	Method	Thermal line dot printing
	Number of dots/line	432
	Resolution (dots/mm)	8
	Paper width (mm)	58^{+0}_{-1}
	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*1
	Paper cutting (cut)	1,000,000*1
Operating temperature (˚C)		0 to 50
Dimensions (W×D×H mm)		98.4 × 95.5 × 148.0*2
Mass (g)		Approx. 525
Software*3		Printer Driver

*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

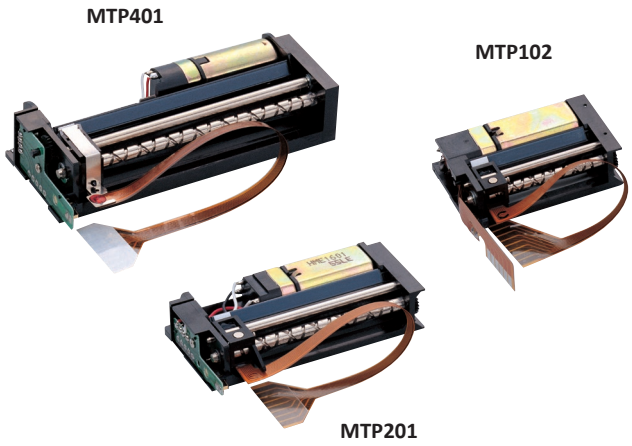
USB interface specification

USB printer-class 2.0 conformity

Serial Printer

MTP Series

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



Model		MTP102-16B	MTP201-20B	MTP201-24B	MTP401-40B	MTP201-G166
Printing	Type	Character				Graphic
	Method	Thermal serial dot printing				
	Paper width (mm)	38^{+0}_{-1}	58^{+0}_{-1}		80^{+0}_{-1}	58^{+0}_{-1}
	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*1				
Operating temperature (°C)		0 to 50				
Dimensions (W×D×H mm)		48.0 × 31.0 × 13.8*2	70.0 × 34.0 × 14.4*2		91.5 × 35.5 × 20.0*2	70.0 × 34.0 × 14.4*2
Mass (g)		Approx. 35	Approx. 40		Approx. 50	Approx. 40

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

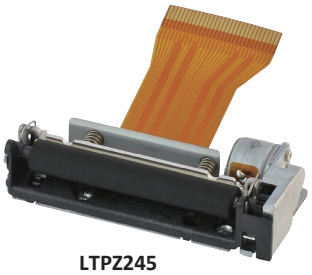
Thermal Printer Mechanism

LTPZ Series Low Voltage

POS/ECR EFT-POS Measuring Instrument Portable Printer Medical Equipment

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

LTPZ245
(Vertical)



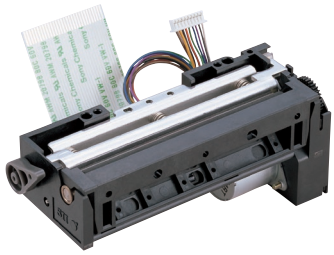
LTPZ245
(Horizontal)

Thermal Printer Mechanism

LTPV Series Low Voltage

Measuring Instrument Barcode Portable Printer Label Medical Equipment

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



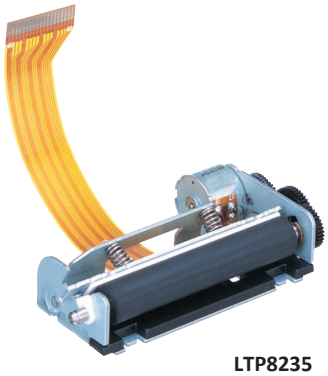
LTPV345

Thermal Printer Mechanism

LTP8235 Low Voltage

POS/ECR Measuring Instrument Portable Printer Medical Equipment Calculator

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



LTP8235

Thermal Printer Mechanism

LTP1245 Low Voltage

POS/ECR EFT-POS Measuring Instrument Portable Printer Medical Equipment

- 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

Thermal Printer Mechanism

LTPH245 Low Voltage

POS/ECR EFT-POS Measuring Instrument Portable Printer Medical Equipment

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

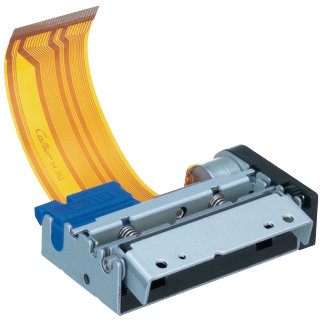
LTPH245

Thermal Printer Mechanism

LTPC Series Low Voltage

POS/ECR · Measuring Instrument · Portable Printer · Medical Equipment

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



LTPC245

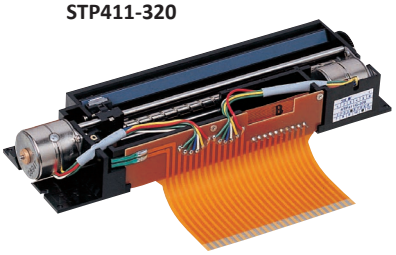
Thermal Printer Mechanism

STP411 Low Voltage

Measuring Instrument · Medical Equipment

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

STP411-320

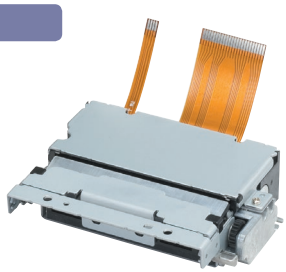


Thermal Printer Mechanism

CAPG247/ LTPG247 24V

POS/ECR · EFT-POS · Barcode

- Max printing speed: 150mm/sec
- Platen latch function
- Windows® driver



CAPG247
(with autocutter model)

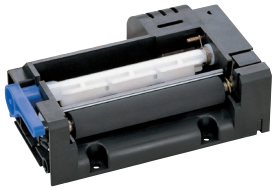
LTPG247

Thermal Printer Mechanism

LTP2000 Series 24V

POS/ECR · Measuring Instrument · Barcode · KIOSK System · Ticket Printer · Medical Equipment

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



LTP2242

LTP2342

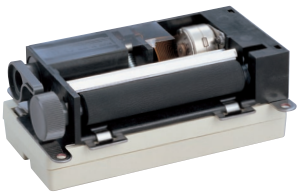
Sub-assembled printer Unit

SAM-1245 Low Voltage

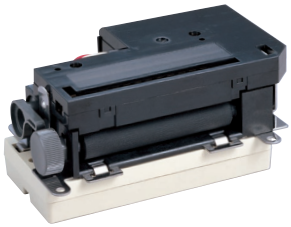
Measuring Instrument · Portable Printer · KIOSK System · Medical Equipment

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

SAM-1245



SAM-1245
(with autocutter model)



Recommended thermal paper

Seiko Instruments Inc. recommends the following paper to best print.

Printer	Thermal paper	Specification					
		Paper width (mm)	External diameter (mm)	Internal diameter (mm)	Length (m)	Roll/Box	Core
CAPD245, LTPD245, LTPU245, LTPJ245 LTPA245, LTPC245, CAPC245, LTPH245	TP-322L	58	30	9	(9)	10	
CAPD345, LTPD345, LTPV345	TP-V341L	80	48	9	(28)	10	
LTPV445	TP-341L-1	112	48	9	(28)	10	
CAPD247, LTPD247, LTP01,LTP02, LTPG247, LTPF247	TP-211C-1	58	48	12	(25)	10	✓
LTP04, CAPD347, LTPD347, LTPF347	TP-312C-1	80	48	12	(25)	10	✓
LTP2242	TP-521C	60	48	12	(25)	10	✓
	TP-252C-1	60	50	12	(28)	10	✓
LTP2342	TP-312C-1	80	48	12	(25)	10	✓
LTP2442	TP-451C-1	112	48	12	(25)	10	✓
DPU-S245	TP-S245L-1	58	38	9	(19)	10	
DPU-S445	TP-341L-1	112	48	9	(28)	10	
RP-B10, RP-E10, RP-D10	TP-E23C-1	58	80	12	(65)	10	✓
	TP-B10CH	80	80	12	(65)	10	✓
MPU-L465	TP-L465CXH TP-L465CAH TL-L465NS (Label) TL-L465NP (Label) TL-L465KS (Label)	*Please contact us					
DPU-3445	TP-341L-1	112	48	9	(28)	10	
	TP-343L-3 (High proof paper)	112	48	9	(28)	10	
	TS-341-125 (Thick paper 125mm)	112	-	-	158	500 (Sheet)	
	TS-341-145 (Thick paper 145mm)	112	-	-	158	500 (Sheet)	
DPU-D2	TP-211C-1	58	48	12	(25)	10	✓
DPU-D3	TP-312C-1	80	48	12	(25)	10	✓
DPU-12	TP-201C-1	58	38	9	(18)	10	✓
DPU-30	TP-211C-1	58	48	12	(25)	10	✓
DPU-411, DPU-412, DPU-414	TP-411L-3	112	48	9	(28)	10	
	TP-411L-4	112	48	9	(28)	10	
DPU-H245	TP-H241L	58	25	9	(7)	10	
DPU-E247	TP-E23C-1	58	80	12	(65)	10	✓
APU-G247	TP-E23C-1	58	80	12	(65)	10	✓
APU-F247	TP-E23C-1	58	80	12	(65)	10	✓
SAM-1245	TP-322L	58	30	9	(9)	10	
MTP102	TP-102C-4	38	28	11.2	(8)	10	✓
MTP201	TP-251L	58	48	9	(28)	10	
	TP-202L-4	58	25	9	(7)	10	
MTP401	TP-312C-1	80	48	12	(25)	10	✓
	TP-401L-4	80	40	9	(20)	10	
STP211	TP-211C-1	58	48	12	(25)	10	✓
	TP-211C-3	58	48	12	(25)	10	✓
STP312	TP-312C-1	80	48	12	(25)	10	✓
	TP-312C-3	80	48	12	(25)	10	✓
STP411	TP-451C-1	112	48	12	(25)	10	✓
	TP-451C-3	112	48	12	(25)	10	✓

Associated software tool

Printer Model	Interface Board / Control Chip Set	Communication interface	Windows®																
			Printer driver						OPOS				POS for .NET						JavaPOS™
			10/8.1/8		7			Xp	8.1/8	7	VISTA	Xp	8.1/8		7		VISTA	Xp	8.1/8/7
			64bit	32bit	64bit	32bit	32bit	32bit	32bit	32bit	32bit	32bit	64bit	32bit	64bit	32bit	32bit	32bit	32bit
CAPM347	IFM201	Serial / USB	✓	✓	✓	✓	✓	✓	✓	✓	–	✓	✓	✓	✓	✓	–	–	–
	PTM20 (with CGJG-01)	Serial / USB	✓	✓	✓	✓	✓	✓	✓*1	✓*1	–	✓*1	✓	✓	✓	✓	–	–	–
CAPD247 LTPD247 CAPD347 LTPD347	IFD001	Serial / USB	✓	✓	✓	✓	✓	✓	✓	✓	–	✓	✓	✓	✓	✓	–	–	–
	PTD00 (with PTJCGG2)	Serial / USB	✓	✓	✓	✓	✓	✓	✓*1	✓*1	–	✓*1	✓	✓	✓	✓	–	–	–
CAPD245 LTPD245 CAPD345 LTPD345	IFD501	Serial / USB	✓	✓	✓	✓	✓	✓	–	✓	–	✓	–	–	–	–	–	–	–
	PTD50 (with PTJCGG2)	Serial / USB	✓	✓	✓	✓	✓	✓	–	✓*1	–	✓*1	–	–	–	–	–	–	–
CAP9247 LTP9247 CAP9347	IF9001	Serial / USB	✓	✓	✓	✓	✓	✓	–	–	–	✓	–	–	–	–	–	–	–
CAPG247 LTPG247	IFG001	Serial / USB	–	–	✓	✓	✓	✓	–	–	–	✓	–	–	–	–	–	–	–
	PTG00 (with PTJCGG2)	Serial / USB	–	–	✓	✓	✓	✓	–	–	–	–	–	–	–	–	–	–	–
DPU-S245 DPU-S445		Serial	✓	✓	✓	✓	✓	✓	–	–	–	–	–	–	–	–	–	–	–
		USB	✓	✓	✓	✓	✓	✓	–	–	–	–	–	–	–	–	–	–	–
		Bluetooth® *4	✓	✓	✓	✓	✓	✓	–	–	–	–	–	–	–	–	–	–	–
DPU-D2 DPU-D3		Serial / USB	✓	✓	✓	✓	✓	✓	–	–	–	–	–	–	–	–	–	–	–
APU-G247		Serial / USB	–	–	✓	✓	✓	✓	–	–	–	✓	–	–	–	–	–	–	–
RP-D10		Serial	✓	✓	✓	✓	✓	✓	✓	✓	–	✓	✓	✓	✓	✓	–	✓	✓
		USB	✓	✓	✓	✓	✓	✓	✓	✓	–	✓	✓	✓	✓	✓	–	✓	✓
		Ethernet	✓	✓	✓	✓	✓	✓	✓	✓	–	✓	✓	✓	✓	✓	–	✓	✓
		Bluetooth® *4	✓	✓	✓	✓	✓	✓	✓	✓	–	✓	✓	✓	✓	✓	–	✓	–
RP-E10/RP-E11		Serial	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		USB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Ethernet	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Printer Model	Interface Board / Control Chip Set	Communication interface	Linux®			Windows® CE	Android™ SDK	iOS SDK
			CUPS	SDK	JavaPOS™			
			*2					
			32bit	32bit	32bit			
CAPM347	IFM201	Serial/USB	✓	✓	–	–	–	–
	PTM20 (with CGJG-01)	Serial/USB	✓	✓	–	–	–	–
CAPD247 LTPD247 CAPD347 LTPD347	IFD001	Serial/USB	✓	✓	–	–	–	–
	PTD00 (with PTJCGG2)	Serial/USB	✓	✓	–	–	–	–
CAPD245 LTPD245 CAPD345 LTPD345	IFD501	Serial/USB	✓	✓	–	–	–	–
	PTD50 (with PTJCGG2)	Serial/USB	✓	✓	–	–	–	–
CAP9247 LTP9247 CAP9347	IF9001	Serial/USB	✓	✓	–	–	–	–
CAPG247 LTPG247	IFG001	Serial/USB	–	–	–	–	–	–
	PTG00 (with PTJCGG2)	Serial/USB	–	–	–	–	–	–
DPU-S245 DPU-S445		Serial	–	–	–	✓*3	–	–
		USB	–	–	–	✓*3	3.1 to 6.0	–
		Bluetooth® *4	–	–	–	✓*3	2.3.3 to 6.0	7.0 to 9.2
DPU-D2 DPU-D3		Serial/USB	–	–	–	–	–	–
APU-G247		Serial/USB	–	–	–	–	–	–
RP-D10		Serial	✓	✓	✓	–	–	–
		USB	✓	✓	✓	–	3.1 to 6.0	–
		Ethernet	✓	✓	✓	–	3.1 to 6.0	7.0 to 9.2
		Bluetooth® *4	–	–	–	–	4.0 to 6.0	7.0 to 9.2
RP-E10/RP-E11		Serial	✓	✓	✓	–	–	–
		USB	✓	✓	✓	–	3.1 to 6.0	–
		Ethernet	✓	✓	✓	–	3.1 to 6.0	7.0 to 9.2

*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: Depending on Bluetooth® module on host device

Anytime, Anywhere!!
SII Thermal Printer

Thermal Printer

Product catalog **2016-2017**

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Printed in Sep.2016

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5-1609-PDF/MS Printed in Japan