

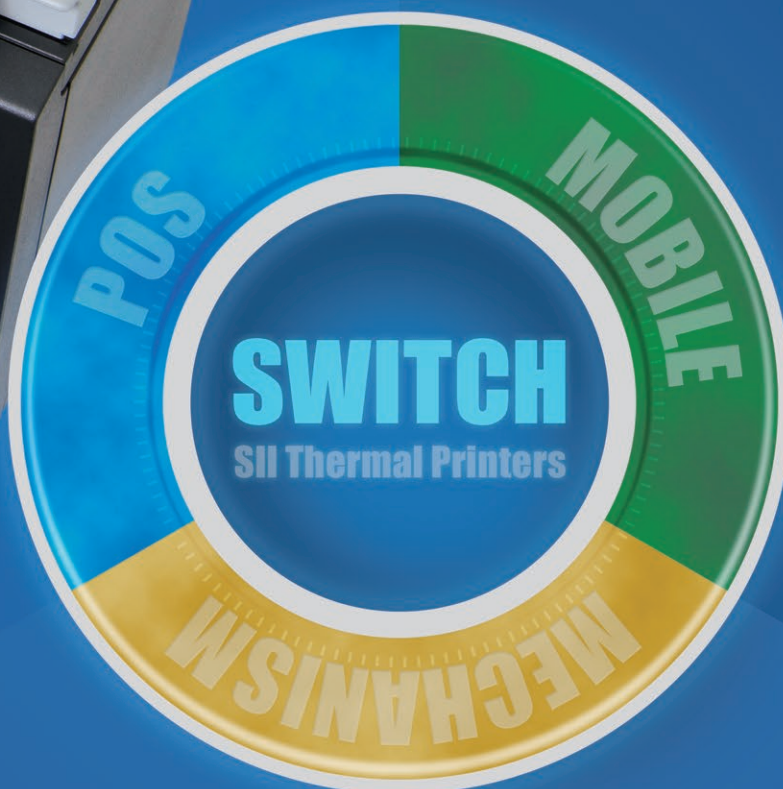
RP-E10 Series

RP-E10: Receipt top-exit / RP-E11: Receipt front-exit (JIS IPX1)
 Compact cube: 129mm x 129mm x 129mm
 Max printing speed: 350mm/sec
 High Reliability: 150km, 2 million cuts
 Various drivers and wide variety utility software
 Large LED Indicator (Multi-color)



DPU-S445

Max printing speed: 100mm/sec (DPU-S245)
 90mm/sec (DPU-S445)
 Interface: Bluetooth®, USB,
 IrDA (ver1.2) and Serial
 Compact and light-weight
 Easy paper operation
 Various drivers



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°C
 Various drivers



LTP01

Max. printing speed: 75mm/sec
 Compact and light-weight
 Compatible model with LTP245 (Horizontal)





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.

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.



EFT-POS

When you pay by card...



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.

2 inch
Low Voltage
Small-footprint



LTPJ245



LTP01



LTP02



POS/ECR

When you go to shopping...



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.

High speed printing
2 to 3 inch
Small-footprint



CAPD Series



LTPD Series



RP-E10

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2012-2013 Thermal Printer Product Catalog



Why direct thermal printing ①

Product Classification Table ③

Peripherals Guide ④

Low Voltage ⑤

LTPD245/345, CAPD245/345, LTP01 Series,
LTPZ Series, LTP02, LTPJ Series, LTPU245

24 Volt ⑪

CAPM Series, LTPF Series, LTPD247/347
CAPD247/347, CAP9000 Series
LTP9000 Series

Mobile Printer ⑩

MPU-L465 Series, DPU-S Series

POS Printer ⑰

RP-E10 Series

Standalone Printing Unit ⑳

DPU-414

Panel-Mount Printing Unit ㉒

DPU-D Series

Sub-assembled Printing Unit ㉓

APU-9000-C Series, APU-G247

Serial Printer ㉔

MTP Series

Other Models Line up ㉖

LTPA245, LTPV Series, LTP8235, LTP1245

LTPH245, LTPC Series, STP Series

LTP2000 Series, CAPG247, LTPG247, RP-B10

SAM-1245

Associated software tool ㉙

Thermal Paper List ㉚



Medical Measuring

When you use the medical or measurement 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.

2 to 4 inch

Quiet

Chart printing



DPU-414

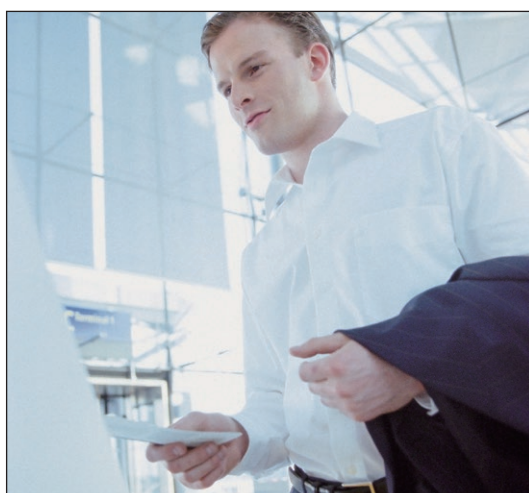


DPU-S445



CD/ATM Kiosk Lottery

When you use the KIOSK terminal...



**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.

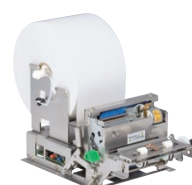
2 to 3 inch

Presenter

Auto cutter



APU-G247



APU-9000-C Series

Product Classification Table

Classification	Product	Paper width(mm)	Resolution(dots / mm)	Product category
Low voltage	CAPD245	58	8	Easy paper operation mechanism
	CAPD345	80	8	
	LTPD245*1	58	8	
	LTPD345*1	80	8	
	LTP01	58	8	
	LTPZ245	58	8	
	LTP02	58	8	
	LTPJ245	58	8	
	LTPU245	58	8	
24 volt	CAPM347	*2	8	Easy paper operation mechanism
	CAPD247	58	8	
	CAPD347	80	8	
	LTPD247	58	8	
	LTPD347	80	8	
	LTPF247	58	8	
	LTPF347	80	8	
	CAPM347	*2	8	Loading mechanism
	CAP9247	58 / 60	8	
	CAP9347	80 / 82.55	8	
	LTP9247	58 / 60	8	
	LTP9347	80 / 82.55	8	

*1 Available loading model

*2 58mm, 60mm, 80mm, 83mm

Product category	Product	Paper width(mm)	Resolution(dots / mm)	Dot composition(H x W)
Serial Printer	MTP102-16B	38	-	7 x 110
	MTP201-20B	58	-	7 x 138
	MTP201-24B	58	-	7 x 166
	MTP401-40B	80	-	7 x 278
	MTP201-G166	58	-	8 x 166
	MTP401-G280	80	-	8 x 280
Mobile printer	DPU-S245	58	8	-
	DPU-S445	112	8	-
	MPU-L465	70 to 115	(300dpi)	-
POS printer	RP-E10 / E11	58 / 80	8	-
Standalone printer unit	DPU-414	112	-	9 x 320
Panel-mount printer unit	DPU-D2	58	8	-
	DPU-D3	80	8	-
Sub-assembled printer unit	APU-9247-C	58 / 60	8	-
	APU-9347-C	80 / 82.55	8	-
	APU-G247	58	8	-

Peripherals Guide

Classification	Product	Auto cutter	Interface	CPU	Winder unit
Low voltage	CAPD245	Included	IFD501-01UK IFD501-01SK	PTD50P01	-
	CAPD345	Included			
	LTPD245	-			
	LTPD345	-			
	LTP01	-	-	-	-
	LTPZ245	-	-	-	-
	LTP02	-	-	-	-
	LTPJ245	-	-	-	-
	LTPU245	-	-	-	-
24 volt	CAPM347	Included	IFM201-01UK/01SK	PTM20P01	-
	CAPD247	Included	IFD001-01UK IFD001-01SK	PTD00P01	-
	CAPD347	Included			
	LTPD247	-			
	LTPD347	-	IFF001-02B/02BK	-	WU282
	LTPF247F	ACUF224			-
	LTPF347F	ACUF324	-	PTF20P01	-
	LTPF247E	ACUF224			
	LTPF347E	ACUF324			
	CAP9247	Included	IF9001-03S/03U	-	-
	CAP9347	Included			
	LTP9247	-			
	LTP9347	-			
Serial Printer	MTP102	-	-	PTM01F01	-
	MTP201				
	MTP401				

Product category	Product	Power supply	Battery pack	Battery charger	Power cable	Other
Mobile printer	DPU-S245	PW-D0940-W1	BP-L0715	PWC-L07A1	CB-JP04-18A	Carring case CVR-C01-1
					CB-US04-18A	
					CB-CE01-18B	
					CB-UK01-20A	
	DPU-S445	PW-D0940-W1	BP-L0720	PWC-L07A1	CB-JP04-18A	Carring case CVR-B01-1
					CB-US04-18A	
					CB-CE01-18B	
					CB-CH01-20A	
					CB-UK01-20A	
					CB-AU01-20A	
	MPU-L465	PW-0904-W2	BP-L0720	PWC-L07A1	CB-JP04-18A	-
					CB-US04-18A	
POS printer	RP-E10 / E11	PW-E2427-W1	-	-	CB-JP03-20A	Wall mounting kit WLK-B01-1
					CB-US03-20A	
					CB-CE03-20A	
					CB-UK02-20A	
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			-	

Low Voltage

24Volt

Mobile Printer

POS Printer

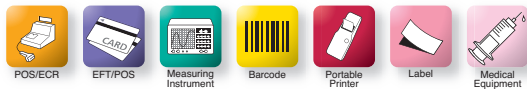
Standalone
Printer UnitPanel-Mount
Printer UnitSub-assembled
Printer Unit

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.
- Various drivers



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 x D x H mm)	Horizontal	69.0 x 30.0 x 15.0 ^{*2}	91.0 x 30.0 x 15.0 ^{*2}
	Vertical	69.0 x 15.0 x 30.0 ^{*2}	91.0 x 15.0 x 30.0 ^{*2}
Mass (g)		Approx. 40	Approx. 58
Driver		Windows® XP/Vista/7(32bit/64bit), OPOS(XP), Linux	

*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 x W dots)	16 dots characters : 16 x 8, 16 x 16 24 dots characters : 24 x 12, 24 x 24	
Character type	Extended graphics character set	Yes
	Katakana character set	Yes
	Codepage 1252	Yes
	Optional font	Yes
	Downloaded character	Yes
	User-defined character	Yes
	JIS 1&2 level kanji	Yes
Communication interface	USB (2.0)	Serial (RS-232C)
Dimensions (W x D x H mm)	69.0 x 50.0 x 14.0	

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*4 or external ROM
Character matrix (H x W dots)	16dots characters : 16 x 8, 16 x 16 24dots characters : 24 x 12, 24 x 24
Dimensions (W x D x H mm)	16.0 x 16.0 x 1.7

*4 CG ROM: Japanese



IFD501-01UK



IFD501-01SK

Thermal Printer Mechanism

CAPD245/345



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



Low Voltage

24Volt

Mobile Printer

POS Printer

Standalone Printer Unit

Panel-Mount Printer Unit

Sub-assembled Printer Unit

Serial Printer

Other Models Line up

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 x D x H mm)		83.1×35.4×26.9 ^{*2}	105.1×35.4×27.2 ^{*2}
Mass (g)		Approx. 125	Approx. 148
Driver		Windows® XP/Vista/7(32bit/64bit), OPOS(XP), Linux	

*1 Use recommended thermal papers *2 Excluding mounting part

Interface / CPU

	Model
USB interface board	IFD501-01UK
Serial interface board	IFD501-01SK
CPU	PTD50P01

*Interface boards and CPU are mutual options with LTPDX45 series.

*Please see P.5 for details.

Thermal Printer Mechanism

LTP01 Series



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



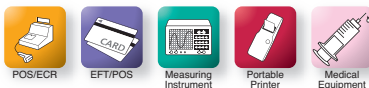
LTP01-245

Model		LTP01-245-01 without platen detecting switch	LTP01-245-02 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)	4.2 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 x D x H mm)		69.8 x 32.7 x 15.3 *2	70.3 x 32.7 x 15.3 *2
Mass (g)		Approx.44	

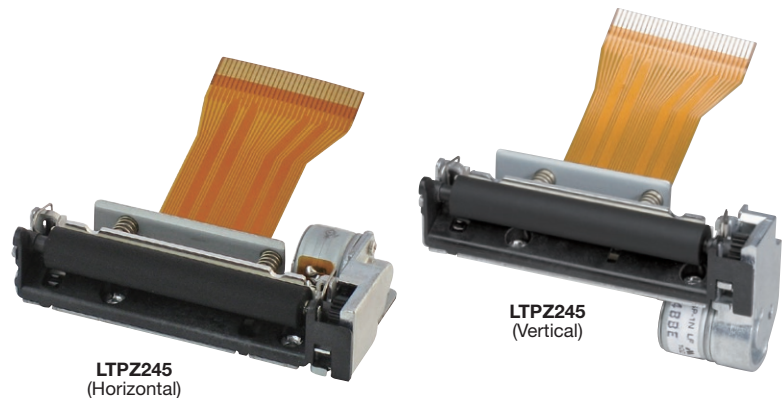
*1 Use recommended thermal papers *2 Excluding protrusion

Thermal Printer Mechanism

LTPZ Series



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

LTPZ245
(Horizontal)LTPZ245
(Vertical)

Model		LTPZ245 (Horizontal)	LTPZ245 (Vertical)
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	
	Operation voltage (Vdd)	3.0 to 3.6 / 4.75 to 5.25	
Power supply (V)	Operation voltage (Vp)	4.2 to 9.5	
	Head	3.60 (9.5V / 64dots)	
Peak current (A)	Motor	0.6	
	Pulse activation (pulse)	100 million	
Service life	Abrasion resistance (km)	50 *1	
Operating temperature (°C)		-20 to 50	
Dimensions (W x D x H mm)		70.1 x 32.7 x 15.3 *2	70.1 x 21.8 x 31.0 *2
Mass (g)		Approx.44	Approx.46

*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

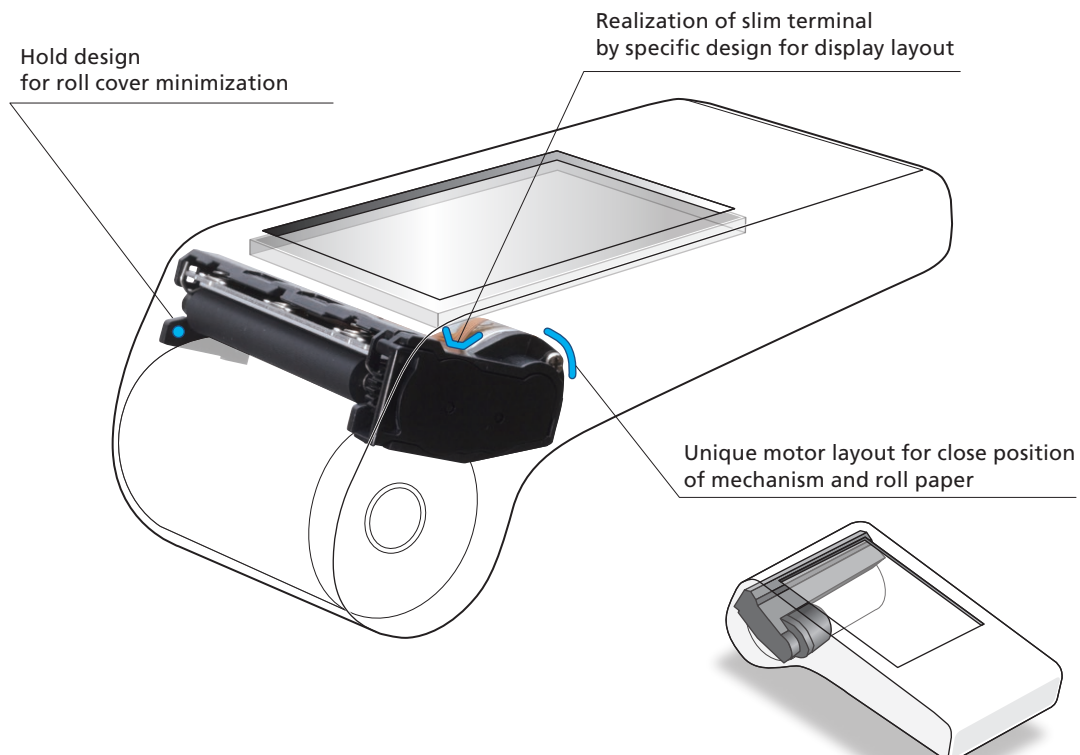


LTP02-245

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 (V _{dd})	3.0 to 3.6
	Operation voltage (V _p)	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 x D x H mm)		67.3 x 18.1 x 30.0 *2
Mass (g)		Approx.28

*1 Use recommended thermal papers *2 Excluding protrusion

Smart design for terminal minimization !



Thermal Printer Mechanism

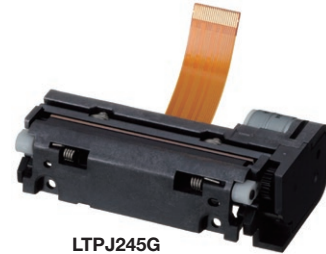
LTPJ Series



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



LTPJ245D



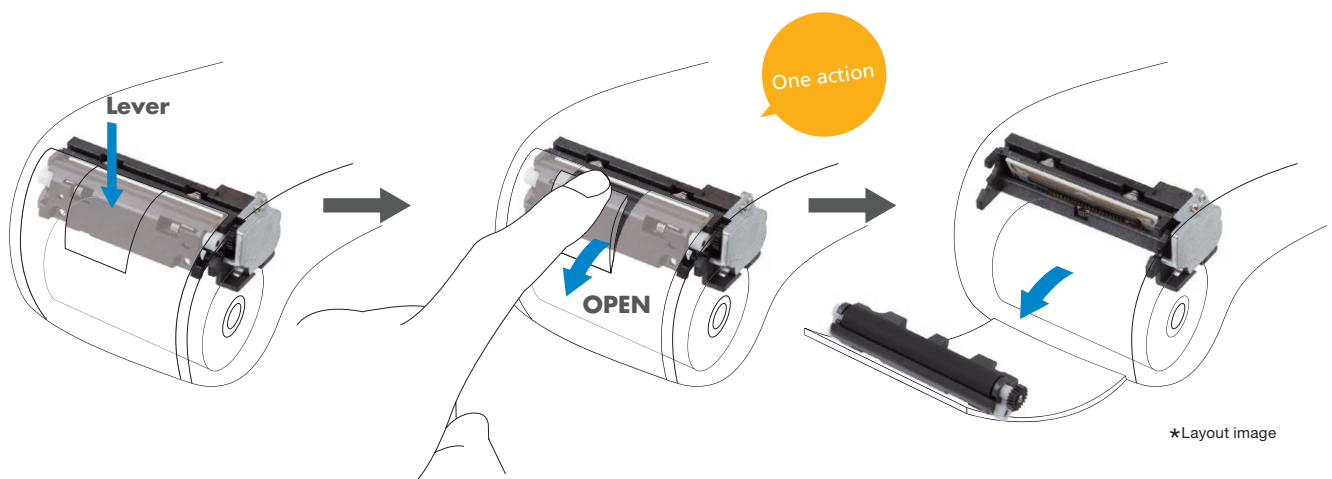
LTPJ245G

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 x D x H mm)		68.5 x 31.5 x 22.0 *2	68.5 x 36.5 x 22.0 *2
Mass (g)		Approx.39	Approx.38

*1 Use recommended papers *2 Excluding protrusion

New latch mechanism

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

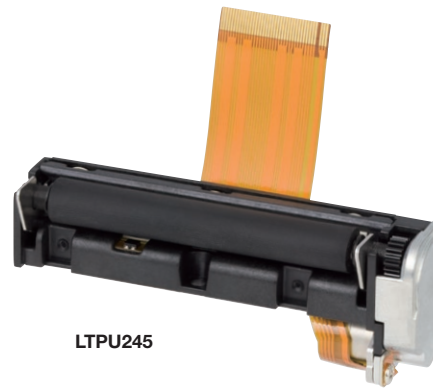


Thermal Printer Mechanism

LTPU245



- 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 x D x H mm)		69.8 x 17.3 x 25.0 ^{*2}
Mass (g)		Approx. 30

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

Low Voltage

24Volt

Mobile Printer

POS Printer

Standalone
Printer UnitPanel-Mount
Printer UnitSub-assembled
Printer Unit

Serial Printer

Other Models
Line up

Easy Paper Operation Mechanism Loading Mechanism

24V

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°
- Various drivers



CAPM347



Easy Paper Operation Model

Model		CAPM347			
		Easy paper operation model		Loading model	
		Regular thermal paper	Thick thermal paper	Regular thermal paper	Thick thermal paper
Printing	Matched thermal paper				
	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	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)* ¹	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}	0 to 50 ^{*1}	-20 to 60 ^{*1}	0 to 50 ^{*1}
Dimensions (WxDxH mm)		110.0 × 61.0 × 53.4		110.0 × 61.0 × 55.9	
Mass (g)		Approx. 500			
Driver		Windows® XP/Vista/7(32bit/64bit), OPOS(XP), Linux			

*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 x W dots)	16 dots characters : 16 x 8, 16 x 16 24 dots characters : 24 x 12, 24 x 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 (WxDxH mm)	60.0 x 80.0 x 14.0	

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 x W dots)	16dots characters : 16 x 8, 16 x 16 24dots characters : 24 x 12, 24 x 24
Dimensions (W x D x H mm)	22.0 x 22.0 x 1.7

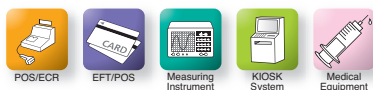
*4 CG ROM: Japanese



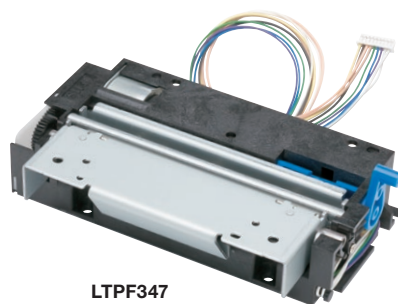
Loading Model

Thermal Printer Mechanism

LTPF Series



- Max printing speed: 220mm/sec
- Platen latch function
- Heavy-duty: 100mil. pulse, 100km
- Auto cutter option (Slide type) available



LTPF347

LTPF247
(With auto cutter)

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 x D x H mm)		86.2 x 54.0 x 25.8 *2		110.2 x 54.0 x 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 x W dots)		16 dots characters : 16 x 8, 16 x 16 24 dots characters : 24 x 12, 24 x 24	
Character type	Extended graphics character set	Yes	Yes
	Katakana character set	No	Yes
	Optional font	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 x D x H mm)		80.0 x 100.0 x 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 x W dots)	16dots characters : 16 x 8, 16 x 16 24dots characters : 24 x 12, 24 x 24
Dimensions (W x D x H mm)	22.0 x 16.0 x 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 center point)	Full cut	Partial cut (Leave center 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 x D x H mm)		80.0 x 64.0 x 19.0		102.0 x 64.0 x 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	φ83
Inside diameter of paper roll (mm)min	φ20
Operating Voltage (V)	21.6 to 26.4
Speed (mm/s)max	220
Life (operating hours)	160
Dimensions (W x D x H mm)	87.8 x 92.0 x 97.6
Mass (g)	Approx. 136

Thermal Printer Mechanism

LTPD247 / 347



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



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 x D x H mm)	Horizontal	71.0 x 30.0 x 15.0 *2	
	Vertical	71.0 x 15.0 x 30.0 *2	
Mass (g)		Approx. 56	
Driver		Windows® XP/Vista/7(32bit/64bit), OPOS(XP), Linux	

*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 x W dots)		16 dots characters : 16 x 8, 16 x 16 24 dots characters : 24 x 12, 24 x 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 x D x H mm)		69.0 x 50.0 x 14.0	

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*1 or external ROM
Character matrix (H x W dots)		16dots characters : 16 x 8, 16 x 16 24dots characters : 24 x 12, 24 x 24
Dimensions (W x D x H mm)		16.0 x 16.0 x 1.7

*1 CG ROM: Japanese



IFD001-01UK



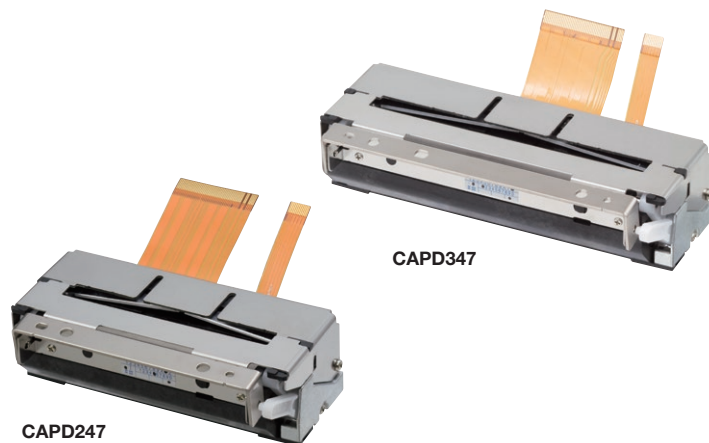
IFD001-01SK

Thermal Printer Mechanism

CAPD247/347



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



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	
Detection	Paper path	Curved	
	Head temperature	By thermistor	
	Platen position	By mechanical switch	
	Out of paper	By photo interrupter	
Power supply(V)	Cutter home position	By photo interrupter	
	Operation voltage (Vdd)	2.7 to 3.6 / 4.75 to 5.25	
Peak current(A)	Operation voltage (Vp)	21.6 to 26.4	
	Head	2.61 (26.4V/144dots) 5.23 (26.4V/288dots)	
	Motor	0.44	0.52
Auto cutter	Cutter	0.64	
	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	
Service life	Cut frequency (cut/min)max	30	
	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 x D x H mm)		83.1×35.4×26.9 ^{*2}	105.1×35.4×27.2 ^{*2}
Mass (g)		Approx. 131	Approx. 154
Driver		Windows® XP/Vista/7(32bit/64bit), OPOS(XP), Linux	

*1 Use recommended thermal papers *2 Excluding mounting part

Interface / CPU

Model	
USB interface board	IFD001-01UK
Serial interface board	IFD001-01SK
CPU	PTD00P01

*Interface boards and CPU are mutual options with LTPDX47 series.

*Please see P.13 for details.

Low Voltage

24Volt

Mobile Printer

POS Printer

Standalone
Printer UnitPanel-Mount
Printer UnitSub-assembled
Printer Unit

Serial Printer

Other Models
Line up

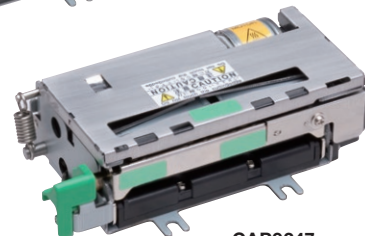
Thermal Printer Mechanism

CAP9000 Series
LTP9000 Series

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



CAP9347



CAP9247

Model		CAP9247	CAP9347	LTP9247	LTP9347
Printing	Method	Thermal line dot printing			
	Number of dots/line	448	640	448	640
	Resolution (dots/mm)	8			
	Paper width (mm)	58 $^{+0}_{-1}$ / 60 $^{+0}_{-1}$	80 $^{+0}_{-1}$ / 82.55 $^{+0}_{-1}$	58 $^{+0}_{-1}$ / 60 $^{+0}_{-1}$	80 $^{+0}_{-1}$ / 82.55 $^{+0}_{-1}$
	Printing width (mm)	54 / 56	76 / 80	54 / 56	76 / 80
	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 (μ m)	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			
Operating temperature (°C)		-20 to 60			
Dimensions (W x D x H mm)		89.5 x 50.0 x 30.0 *2	112.0 x 50.0 x 30.0 *2	88.8 x 50.0 x 29.7 *2	111.25 x 50.0 x 29.7 *2
Mass (g)		Approx.240	Approx.290	Approx.150	Approx.180
Drivers		Windows® XP/Vista/7(32bit/64bit), OPOS(XP), Linux			

*1 Use recommended thermal papers *2 Excluding protrusion

Interface

Model		IF9001-03U	IF9001-03S
CPU		Custom CPU	
Thermal printer		CAP9247, CAP9347, LTP9247, LTP9347	
Operating voltage (V)		Vp:21.6 to 26.4	
Character matrix (H x W dots)		16 dots characters : 16 x 8, 16 x 16	24 dots characters : 24 x 12, 24 x 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	Serial (RS-232C)
Dimensions (W x D x H mm)		108.0 x 90.0 x 28.0	

Mobile Printer

WhiteTiger® 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

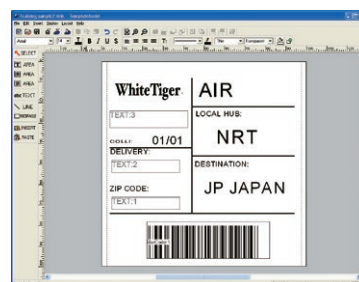
MPU-L465-16
(Bluetooth® model)MPU-L465-02
(Standard model)

Model		MPU-L465-02 Standard model	MPU-L465-16 Bluetooth model
Printing	Method	Thermal line dot printing	
	Number of dots/line	1280	
	Resolution (dpi)	300	
	Paper width (mm)	70 to 115	
	Printing width (mm)	108.4	
	Speed (mm/sec)max	85	
	Outside diameter of paper roll (mm)max	φ58	
	Inside diameter of paper roll (mm)	φ8.0, φ12.0, φ25.4	
	character matrix (H × W dots)	24×12, 24×24, 36×18, 36×36	
	character size (H × W mm)	2.03 x 1.02, 2.03 x 2.03, 3.05 x 1.52, 3.05 x 3.05	
Type of paper		Roll paper, Label roll paper	
Character type		Extended graphics character, Katakana character, Optional font, Downloaded character, User-defined character, JIS1&2 level kanji,	
Bar code		UPC-A/E, JAN (EAN) 8/13, ITF, CODE39, CODABAR, CODE93, CODE128/EAN128, PDF417, QR Code, MaxiCode, Data Matrix	
Power supply(V)		Li-ion battery, Specified AC adapter	
Communication interface	USB Ver.1.1	Yes	Yes
	RS-232C	Yes	Yes
	Bluetooth® SPP	No	Yes
Input buffer		4k bytes	
Command		ESC/POS™ conformity	
Operating temperature (°C)		-15 to 50	
Service life (Km)		50	
Dimensions (W × D × H mm)		168 × 155 × 87 *1	
Mass (g)		Approx.760 *2	Approx.870 *3
Standard		FCC, VCCI	
Option		Battery pack, AC adapter, Battery charger, AC cable, Belt clip, Strap, Serial cable, USB cable	

*1 Excluding protrusion, including rubber cover *2 Excluding strap, roll paper, battery and belt clip *3 Excluding strap and roll paper, including battery and belt clip

Software tools

Convenient software tools available for assisting application development.

Template layout / download software
TemplateAssistUTILITY software
sii_dipsw

Low Voltage

24Volt

Mobile Printer

POS Printer

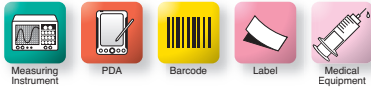
Standalone
Printer UnitPanel-Mount
Printer UnitSub-assembled
Printer Unit

Serial Printer

Other Models
Line up

Mobile Printer

DPU-S Series



- Max printing speed: 100mm/sec (DPU-S245)
90mm/sec (DPU-S445)
- Interface: Bluetooth®, USB, IrDA (ver1.2) and Serial
- Compact and light-weight
- Easy paper operation
- Various drivers



DPU-S445



DPU-S245

Model		DPU-S245	DPU-S445
Printing	Method	Thermal line dot printing	
	Number of dots/line	384	832
	Resolution (dots/mm)	8	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	φ38	φ50
	Character matrix (HxW dots)	24 x 12, 24 x 24, 16 x 8, 16 x 16	24 x 12, 24 x 4, 16 x 8, 16 x 16
	Character dimensions (HxW mm)	3.0 x 1.5, 3.0 x 3.0, 2.0 x 1.0, 2.0 x 2.0	3.0 x 1.5, 3.0 x 3.0, 2.0 x 1.0, 2.0 x 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 (ver1.2), 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 x D x H mm)		83 x 130 x 45 *3	145.0 x 135.0 x 58.0 *3
Mass (g)		Approx.280 *4	Approx.490 *4
Standard		FCC, CE, VCCI, CCC *5	FCC, CE, VCCI, CCC
Option		AC adapter, Battery pack, Battery charger, AC cable, USB cable, Serial cable, Carrying case	
Drivers		Windows® XP/Vista/7(32bit/64bit), Library(Windows® CE5.0/6.0, Windows® Mobile5.0/6.0), Android™(SDK)*6	

*1 Only Bluetooth® model *2 Use recommended thermal papers *3 Excluding protrusion *4 including battery, excluding roll paper *5 DPU-S245-00A-E model only *6 Bluetooth model only

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 printerclass 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

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 for 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 for 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 for 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.

Thermal Printer

POS Printer

POS Printer

RP-E10 Series



RP-E10

- RP-E10: Receipt top-exit / RP-E11: Receipt front-exit (JIS IPX1)
- Compact cube: 129mm x 129mm x 129mm
- Max printing speed: 350mm/sec
- High Reliability: 150km, 2 million cuts
- Various drivers and wide variety utility software.
- 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 (dpi)	203 (8dots/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)	φ83
	Inside diameter of paper roll (mm)	φ12
	Character matrix (H x W dots)	24 x 12, 24 x 24, 16 x 8, 16 x 16
	Character size (H x W mm)	3.0 x 1.5, 3.0 x 3.0, 2.0 x 1.0, 2.0 x 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	Serial (RS-232C), USB, 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	Abrasion resistance (km)	150*1
	Paper cutting(cut)	2,000,000
Dimensions (W x D x H mm)	129.0 x 129.0 x 129.0*2	
Mass (g)	Approx. 1300	
Standard	FCC, CE, VCCI, RCM	
Option	Wall mounting kit	
Cash drawer	2 drivers (24V / 1A)	
Body color	2 models: White / Black	
Driver	Windows® XP/Vista/7(32bit/64bit), OPOS(XP/Vista/7/POSReady2009/POSReady7) POS for .Net (XP/Vista/7/POSReady2009/POSReady7), Linux(CUPS/SDK), Android™(SDK)*3	

*1 Use recommended thermal papers. *2 Excluding protrusion *3 USB only

Software tools

Convenient software tools available for assisting application development.

Driver and utility software

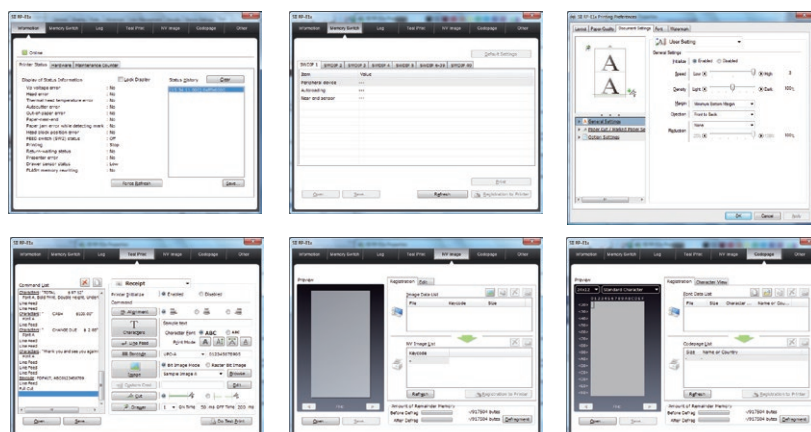
SDK: Status API, Devmode API (For Win32 API*3 / .net API*4)

*3 *4 The Windows® API, informally WinAPI, is Microsoft's core set of application programming interfaces (APIs) available in the Microsoft Windows® operating systems.
The Win32 API is for Windows® operating system.

Utility soft

(Build on the Windows® driver)

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



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



Supermarket

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



Apparel store

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



*install under the counter



Kitchen

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



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

Wall mount kit (Option)

Optional wall mount kit is available for RP-E11 (Front-exit model). The smallest printer fits any place, even on the wall.



Low Voltage

24Volt

Mobile Printer

POS Printer

Standalone Printer Unit

Panel-Mount Printer Unit

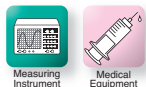
Sub-assembled Printer Unit

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 x W)	9 x 320
	Paper width (mm)	112 ⁺⁰ ₋₁
	Printing width (mm)	89.6
	Speed (character/sec)max	52.5
	Character matrix (H x W dots)	9 x 7
	Character size (H x W mm)	2.5 x 1.9, 2.5 x 0.9 (Condensed)
	Number of columns	40, 80 (Condensed)
Character type		Extended graphics character set, Alphanumeric, International characters, Katakana character set
Power supply		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 x D x Hmm)		160.0 x 170.0 x 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

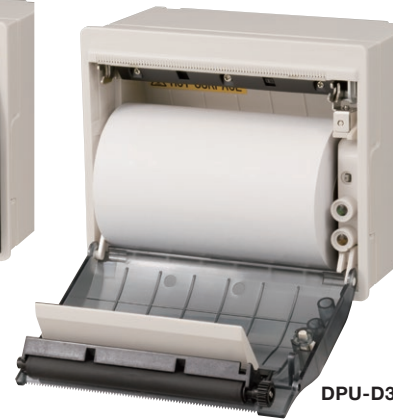


- Max printing speed: 100mm/sec (DPU-D2)
80mm/sec (DPU-D3)

- Small and compact design
- Panel-mount type
- Easy paper operation
- Various drivers



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 x W dots)	24 x 24, 24 x 12, 16 x 16, 16 x 8	
	Character size (H x W mm)	3.0 x 3.0, 3.0 x 1.5, 2.0 x 2.0, 2.0 x 1.0	
	Number of columns	16, 32, 24, 48	24, 48, 36, 72
Character type		Extended graphicss 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 *1	
Dimensions (W x D x H mm)		80.0 x 68.8 x 85.5 *2	102.0 x 68.8 x 85.5 *2
Mass (g)		Approx.180	Approx.210
Driver		Windows® XP/Vista/7(32bit/64bit)	

*1 Use recommended thermal papers *2 Excluding protrusion

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 soft ware

USB interface specification

USB printerclass 2.0 conformity

Low Voltage

24Volt

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-9000-C Series



- Max. printing speed: 250mm/sec
- Roll paper capacity: up to $\phi 152.4$ mm (6inch)
- Interface: Serial, USB model
- Operating temperature : -20°C to 60°C
- Various drivers



APU-9247-C01

APU-9347-C02
(with Presenter)

Model		APU-9247-C01	APU-9347-C01	APU-9247-C02	APU-9347-C02
Presenter		No		Yes	
Printing	Method	Thermal line dot printing			
	Number of dots/line	448	640	448	640
	Resolution (dots/mm)	8			
	Paper width (mm)	58 ⁺⁰ ₋₁ / 60 ⁺⁰ ₋₁	80 ⁺⁰ ₋₁ / 82.55 ⁺⁰ ₋₁	58 ⁺⁰ ₋₁ / 60 ⁺⁰ ₋₁	80 ⁺⁰ ₋₁ / 82.55 ⁺⁰ ₋₁
	Printing width (mm)	54 / 56	76 / 80	54 / 56	76 / 80
	Speed (mm/sec)max	250			
	Paper path	Straight			
	Character matrix (H x W dots)	24 x 24, 24 x 12, 16 x 16, 16 x 8			
Character dimensions (H x W mm)		3.0 x 3.0, 3.0 x 1.5, 2.0 x 2.0, 2.0 x 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, EAN128 PDF417, Data Matrix, Maxi Code, QR Code			
Power supply (V)		21.6 to 26.4			
Communication interface		Serial (RS-232C), USB, Selected Model			
Input buffer		2048 bytes			
Command		ESC/POS™ conformity			
Cutting	Method	Slide type			
	Cutting type	Partial cut / Full cut			
Service life	Pulse activation (pulse)	150million			
	Abrasion resistance (km)	150 ^{*1}			
	Paper cutting (cut)	1,000,000			
Operating temperature (°C)		-20 to 60			
Dimensions (W x D x H mm)		136.0 x 165.0 x 135.0 ^{*2}		136.0 x 216.2 x 135.0 ^{*2}	
Mass (g)		Approx. 1500	Approx. 1600	Approx. 1600	Approx. 1700
Driver		Windows® XP/Vista/7(32bit/64bit), OPOS(XP), Linux			

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

Serial interface specification

Item	Specification
Baud rate	57600, 115200 bps
Data bit	8bits
Parity bit	Odd, Even, or None
Stop bit	1bit
Control method	H/W BUSY, Xon/Xoff

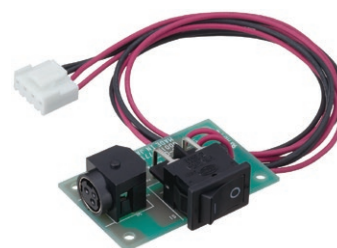
USB interface specification

USB printerclass 2.0 conformity

Power connector conversion board

Model	PB-01-1
Supported AC adapter	PW-A2421-W1 ^{*3}
Dimensions (WxDxH mm)	35.0 x 55.0 x 16.6 ^{*4}
Cable length (mm)	360

*3 Use under specific environment and printer setting only. *4 Excluding protrusions.



PB-01-1

Sub-assembled Printer Unit

APU-G247



- Max. printing speed: 150mm/sec
- Roll paper capacity: up to $\phi 83$ mm
- Easy paper operation
- Interface: Serial or USB model
- Various drivers



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 x W dots)	24 x 24, 24 x 12, 16 x 16, 16 x 8
	Character dimensions (H x W mm)	3.0 x 3.0, 3.0 x 1.5, 2.0 x 2.0, 2.0 x 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)	100million
	Abrasion resistance (km)	100 ^{*1}
	Paper cutting (cut)	1,000,000
Operating temperature (°C)		0 to 50
Dimensions (W x D x H mm)		98.4 x 95.5 x 148.0 ^{*2}
Mass (g)		Approx.525
Driver		Windows® XP/Vista/7(32bit/64bit), OPOS(XP)

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

Serial interface specification

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

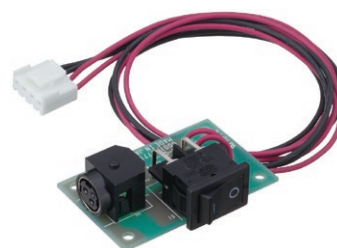
USB interface specification

USB printerclass 2.0 conformity

Power connector conversion board

Model	PB-01-1
Supported AC adapter	PW-A2421-W1 ^{*3}
Dimensions (W x D x H mm)	35.0 x 55.0 x 16.6 ^{*4}
Cable length (mm)	360

*3 Use under specific environment and printer setting only. *4 Excluding protrusions.



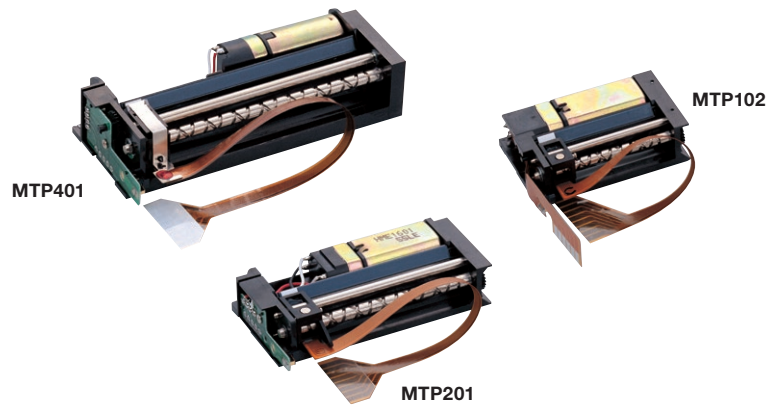
PB-01-1

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	MTP401-G280
Printing	Type	Character				Graphic	
	Method	Thermal serial dot printing					
	Paper width (mm)	38 ⁺⁰ ₋₁	58 ⁺⁰ ₋₁		80 ⁺⁰ ₋₁	58 ⁺⁰ ₋₁	80 ⁺⁰ ₋₁
	Printing width (mm)	26.4	45.9	46	66.7	46	67.2
	Speed (line/sec)max	1.2	1.0	0.9	0.5	0.9	0.5
	Paper path	Curved					
	Character matrix (H x W dots)	7 x 5					
	Character size (H x W mm)	2.4 x 1.2	2.4 x 1.6	2.4 x 1.4	2.4 x 1.2	2.4 x 1.4	2.4 x 1.2
	Number of columns	16	20	24	40	24	40
	Direction	Left to right					
	Timing	Synchronized with the tachogenerator					
	Line spacing (mm)	3.8				2.8	
	Character spacing (dot)	2				0	
	Detection	Home position	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 x D x H mm)		48.0 x 31.0 x 13.8*2	70.0 x 34.0 x 14.4 *2		91.5 x 35.5 x 20.0*2	70.0 x 34.0 x 14.4 *2	91.5 x 35.5 x 20.0 *2
Mass (g)		Approx.35	Approx.40		Approx.50	Approx.40	Approx.50

*1 Use recommended thermal papers *2 Excluding protrusion

CPU

Model	PTM01F01
Thermal printer	MTP102, MTP201, MTP401
Package form	64pin flat package
Operating voltage (V)	Vp:4.0 to 6.0, Vcc:4.5 to 5.5
Input frequency (MHz)	4.91 +/- 0.5%
Configuration	C-MOS LSI
Communication interface	Parallel, Serial
Character type	Extended graphics character set, Alphanumeric, Downloaded character, International characters, Special characters
Character matrix(H x W dots)	7 x 5, 7 x 6(character type), 8 x 6(Graphic type)
Dimensions (W x D x H mm)	17.2 x 17.2 x 2.7

* Download character function is enable when EEPROM is connected.

Other Models Lineup

Thermal Printer Mechanism

LTPA245



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



LTPA245

Low Voltage

Low Voltage

24Volt

Mobile Printer

POS Printer

Standalone Printer Unit

Panel-Mount Printer Unit

Sub-assembled Printer Unit

Serial Printer

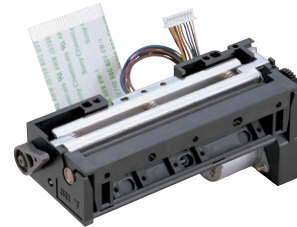
Other Models Lineup

Thermal Printer Mechanism

LTPV Series



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



LTPV345

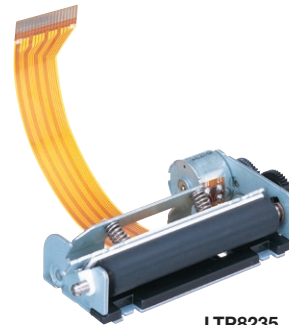
Low Voltage

Thermal Printer Mechanism

LTP8235



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

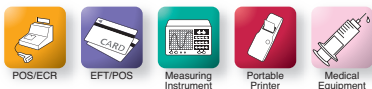


LTP8235

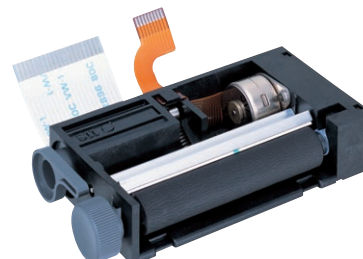
Low Voltage

Thermal Printer Mechanism

LTP1245



- 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

Other Models Lineup

Low Voltage

24Volt

Mobile Printer

POS Printer

Standalone Printer Unit

Panel-Mount Printer Unit

Sub-assembled Printer Unit

Serial Printer

Other Models Line up

Thermal Printer Mechanism

LTPH245



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

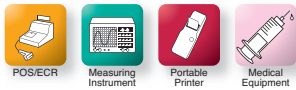


LTPH245

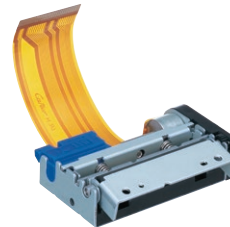
Low Voltage

Thermal Printer Mechanism

LTPC Series



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



LTPC245

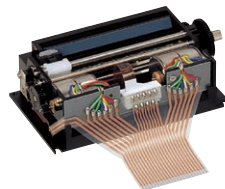
Low Voltage

Thermal Printer Mechanism

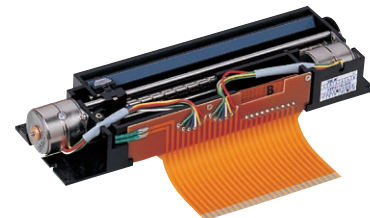
STP series



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



STP211-144

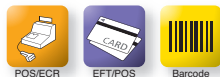


STP411-320

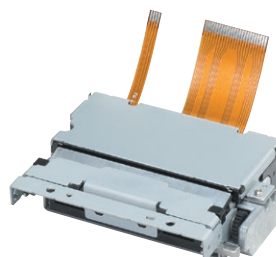
Low Voltage

Panel-Mount Printer Unit

CAPG247 / LTPG247



- 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 autocutter model)



LTPG247

24V

Other Models Lineup

Panel-Mount Printer Unit

LTP2000 Series



- 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

24V

Low Voltage

24Volt

Mobile Printer

POS Printer

Standalone
Printer Unit

Panel-Mount
Printer Unit

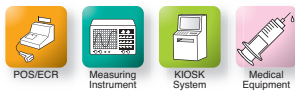
Sub-assembled
Printer Unit

Serial Printer

Other Models
Line up

POS Printer

RP-B10



- Max printing speed : 200mm/sec
- High Reliability : 100mil. pulse, 100km, 1.5mil. cuts
- Mounting flexibility : Countertop, vertical and wall mounting options
- Windows® Driver (XP/Vista/7) ※32bit
- Driver and utility software
- OPOS driver (XP/Vista/7) 32bit only



RP-B10

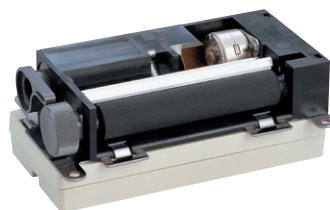
24V

Sub-assembled printer Unit

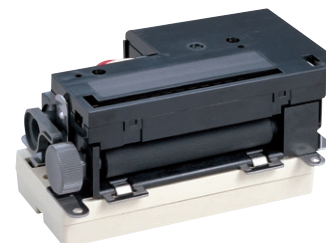
SAM-1245



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



SAM-1245



SAM-1245
(with autocutter model)

Low
Voltage

Associated software tool

			Windows®															Linux		Mobile _SDK	Android™ _SDK
Printer Model	Interface Board / Control Chip Set	Communication interface	Printer Driver					OPOS			POS for .Net						CUPS	SDK			
			7		Vista		Xp	7	Vista	Xp	7		Vista		Xp		*2				
			64bit	32bit	64bit	32bit	32bit	32bit	32bit	32bit	64bit	32bit	64bit	32bit	64bit	32bit	32bit	32bit			
CAPM347	IFM201	Serial USB	✓	✓	-	✓	✓	△	-	✓	△	△	-	-	-	-	✓	✓	-	-	
	PTM20 (with CGJG-01)	Serial USB	✓	✓	-	✓	✓	△*1	-	✓*1	△	△	-	-	-	-	✓	✓	-	-	
CAPD247 LTPD247	IFD001	Serial USB	✓	✓	-	✓	✓	△	-	✓	△	△	-	-	-	-	✓	✓	-	-	
CAPD347 LTPD347	PTD00 (with PTJCGG2)	Serial USB	✓	✓	-	✓	✓	△*1	-	✓*1	△	△	-	-	-	-	✓	✓	-	-	
CAPD245 LTPD245	IFD501	Serial USB	✓	✓	-	✓	✓	△	-	✓	△	△	-	-	-	-	✓	✓	-	-	
CAPD345 LTPD345	PTD50 (with PTJCGG2)	Serial USB	✓	✓	-	✓	✓	△*1	-	✓*1	△	△	-	-	-	-	✓	✓	-	-	
CAP9247, LTP9247 CAP9347, LTP9347	IF9001	Serial USB	✓	✓	-	✓	✓	△	-	✓	△	△	-	-	-	-	✓	✓	-	-	
CAPG247 LTPG247	IFG001	Serial USB	✓	✓	-	✓	✓	-	-	✓	-	-	-	-	-	-	-	-	-	-	
	PTG00 (with PTJCGG2)	Serial USB	✓	✓	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	
DPU-S245 DPU-S445	-	Serial	✓	✓	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	✓*3	-	
		USB	✓	✓	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	✓*3	-	
		Bluetooth	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓*3	2.3.4 or later	
MPU-L465	-	Serial USB	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	✓*4	-		
DPU-D2 DPU-D3	-	Serial USB	✓	✓	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	
APU-G247	-	Serial USB	✓	✓	-	✓	✓	-	-	✓	-	-	-	-	-	-	-	-	-	-	
APU-9247-C APU-9347-C	-	Serial USB	✓	✓	-	✓	✓	-	-	✓	-	-	-	-	-	-	✓	✓	-	-	
RP-E10 / E11	-	Serial	✓	✓	-	✓	✓	✓	✓	✓	△	✓	-	✓	△	✓	✓	✓	-	-	
		USB	✓	✓	-	✓	✓	✓	✓	✓	△	✓	-	✓	△	✓	✓	✓	-	3.1 or later	
		LAN	✓	✓	-	✓	✓	✓	✓	✓	△	✓	-	✓	△	✓	✓	✓	-	-	
RP-B10	-	Serial USB	-	✓	✓	✓	✓	-	✓	✓	-	-	-	-	-	-	-	-	-	-	

*1: Perform when in use of SII CG-ROM

*2: Supported distribution type is different with each printer model.

*3: Windows® CE5.0/Windows® Embedded CE6.0(Include Windows® Mobile 5.0/6.0)

*4: Windows® Mobile 2003/2003 Second Edition

△: To be released in 2012

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	✓
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	TP-E23C-1	58	80	12	(65)	10	✓
	TP-B10CH	80	80	12	(65)	10	✓
MPU-L465	TP-L465CXH	*Please contact us					
	TP-L465CAH						
	TL-L465NS (Label)						
	TL-L465NP (Label)						
	TL-L465KS (Label)						
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 125μm)	112	-	-	158	500 (Sheet)	
	TS-341-145 (Thick paper 145μm)	112	-	-	158	500 (Sheet)	
DPU-D2	TP-211-C1	58	48	12	(25)	10	✓
DPU-D3	TP-312-C1	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	✓

Low Voltage

24Volt

Mobile Printer

POS Printer

Standalone
Printer UnitPanel-Mount
Printer UnitSub-assembled
Printer Unit

Serial Printer

Other Models
Line up



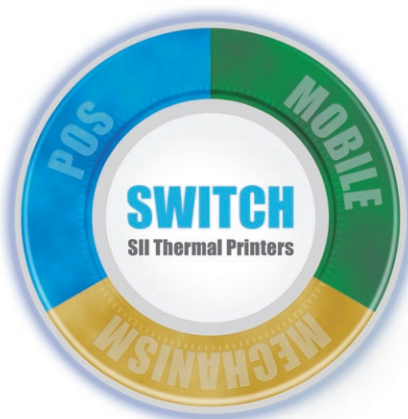
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SII Thermal Printer

Thermal Printer

Product catalog 2012 - 2013

<http://www.sii-ps.com>



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