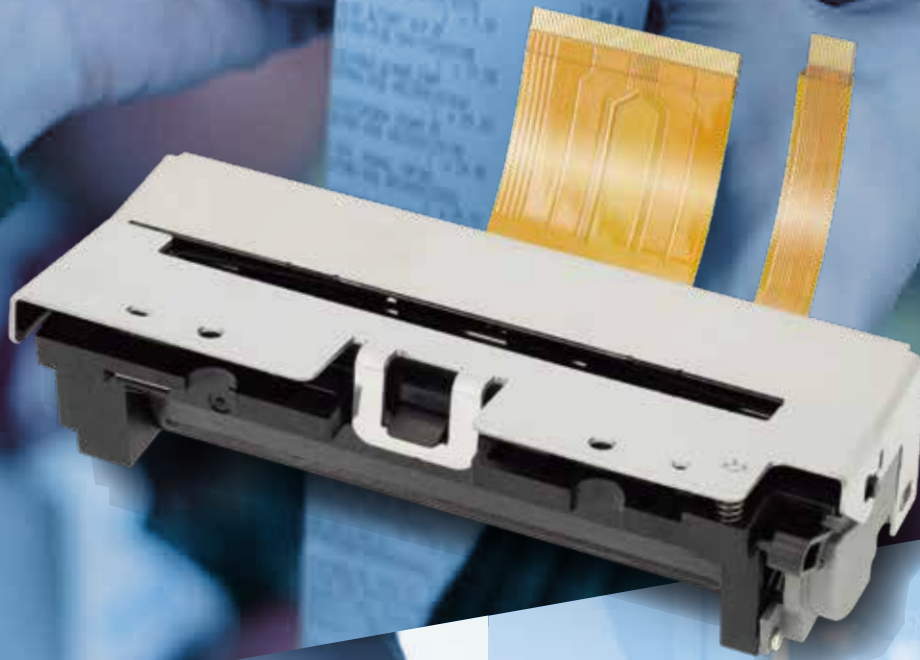


Thermal Printer

Mechanism Catalog [English]

A mechanism
that meets the world's
printing needs.

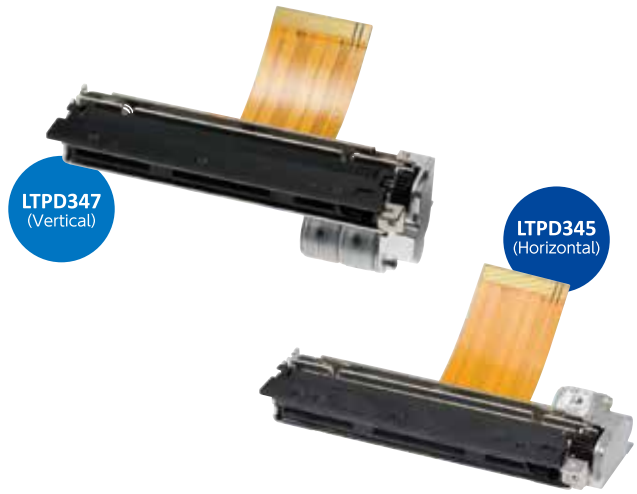


Low Voltage

24V

LTPD Series

- High performance in compact design
- Max. printing speed (24V): 200mm/sec
- Platen latch function
- Label printing *Under specific conditions only.



Model	Low Voltage		24V		
	LTPD245	LTPD345	LTPD247	LTPD347	
Printing	Method				
	Thermal line dot printing				
	Number of dots/line	384	576	432	576
	Resolution (dots/mm)	8			
	Paper width (mm)	58 ⁺⁰ ₋₁	80 ⁺⁰ ₋₁	58 ⁺⁰ ₋₁	80 ⁺⁰ ₋₁
	Printing width (mm)	48	72	54	72
Speed (mm/sec) max	100	80	200		
Paper path	Curved		Curved		
Detection	Head temperature				
	By thermistor				
	Platen position				
Power supply (V)	By mechanical switch				
	By photo interrupter				
	Out of paper				
Peak current (A)	Operation voltage (Vdd)				
	2.7 to 3.6 / 4.75 to 5.25		2.7 to 3.6 / 4.75 to 5.25		
Service Life	Operation voltage (Vp)				
	4.75 to 9.5		21.6 to 26.4		
Operating temperature (°C)	Head		Head		
	3.66 (9.5V / 64dots) 5.49 (9.5V / 96dots)	3.60 (9.5V / 64dots) 5.40 (9.5V / 96dots)	2.61 (26.4V / 144dots) 5.23 (26.4V / 288dots)		
Dimensions (W×D×H mm)	Motor				
	0.6				
Mass (g)	Pulse activation (pulse)				
	100 million				
Interface	Abrasion resistance (km)				
	50 ¹				
CPU	Operating temperature (°C)				
	-10 to 50 ^{1,3}				
Thermal printer	Horizontal		Horizontal		
	69.0 × 30.0 × 15.0 ²	91.0 × 30.0 × 15.0 ²	71.0 × 30.0 × 15.0 ²	91.0 × 30.0 × 15.0 ²	
Operating voltage (V)	Vertical		Vertical		
	69.0 × 15.0 × 30.0 ²	91.0 × 15.0 × 30.0 ²	71.0 × 15.0 × 30.0 ²	91.0 × 15.0 × 30.0 ²	
Character matrix (H×W dots)	Approx. 40		Approx. 58		
	Approx. 56		Approx. 64		

*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	IFD001-01UK	IFD001-01SK
CPU	PTD50P01		PTD00P01	
Thermal printer	LTPD245, LTPD345, CAPD245, CAPD345		LTPD247, LTPD347, CAPD247, CAPD347	
Operating voltage (V)	Vp: 4.75 to 9.5		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 1, Katakana character set 2, Codepage 1252, User page, Downloaded character, Optional font, JIS 1st and 2nd level kanji, User-defined character			
Communication interface	USB(2.0)	Serial(RS-232C)	USB(2.0)	Serial(RS-232C)
Dimensions (W×D×H mm)	69.0 × 50.0 × 14.0		69.0 × 50.0 × 14.0	
Software ⁴	Printer Driver/SDK, Linux® CUPS Filter/SDK		Printer Driver/SDK, OPOS Driver, POS for .NET Driver, Linux® CUPS Filter/SDK	

*4 Please see official homepage "www.sii-ps.com" for details.

CPU

Model	PTD50P01	PTD00P01
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	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, 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	16.0 × 16.0 × 1.7
Software ⁶	Printer Driver/SDK, Linux® CUPS Filter/SDK	Printer Driver/SDK, OPOS Driver, POS for .NET Driver, Linux® CUPS Filter/SDK

*5 CG ROM: Japanese *6 Please see official homepage "www.sii-ps.com" for details.

Low Voltage

LTP02 Series

LTP02-245

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



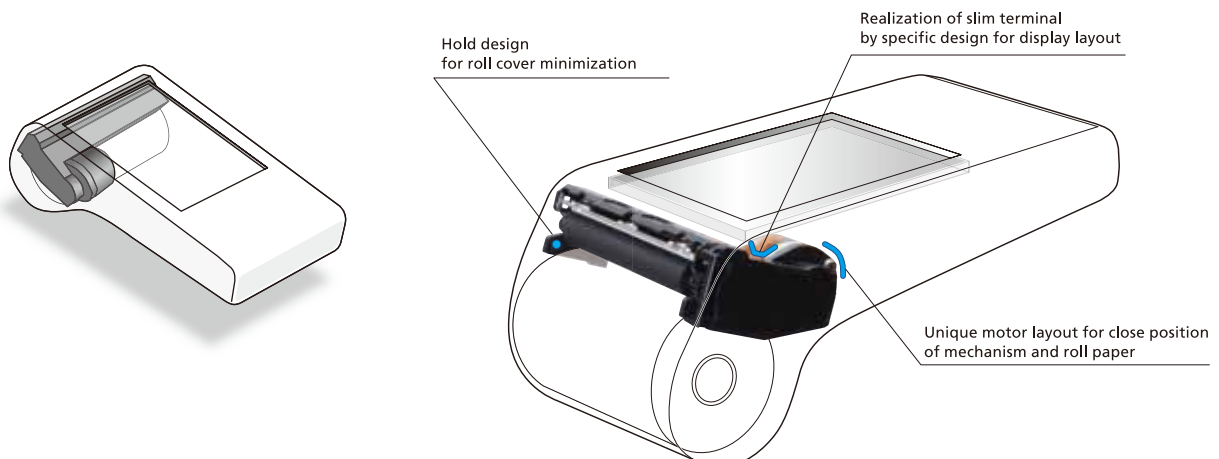
Model		LTP02-245		
		Standard model (LTP02-245-13x)	High speed model (LTP02-245-A3)	Low energy model (LTP02-245-C1)
Printing	Method	Thermal line dot printing		
	Number of dots/line	384		
	Resolution (dots/mm)	8		
	Paper width (mm)	58 ⁺⁰ ₋₁		
	Printing width (mm)	48		
	Speed (mm/sec) max	100	120 (9.0V) 165 (12.0V)	85
	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	5.5 to 9.5, 10.8 to 12.6	3.0 to 4.2
Peak current (A)	Head	2.64 (9.5V/45dots)	3.02 (12.6V/48dots)	5.99 (4.2V/129dots)
	Motor	0.6	0.6	1.0
Service Life	Pulse activation (pulse)	100 million	50 million	100 million
	Abrasion resistance (km)	50 ⁻¹		
Operating temperature (°C)		-10 to 50		
Dimensions (W×D×H mm)		67.3 × 18.1 × 30.0 ¹²		
Mass (g)		Approx. 28		
Control CPU (Option)		✓	-	✓

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

CPU

Model	PT02-5SU	PT02-3U
Thermal printer	LTP02-245-13x	LTP02-245-C1
Package form	48pin LQFP	
Operating voltage (V)	V _p : 5.5 to 9.5 V _{cc} : 3.0 to 3.6	V _p : 3.0 to 4.2 V _{cc} : 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)	
Character type	ASCII Code	
Dimensions (W×D×H mm)	9.0 × 9.0 × 1.5	

Smart design to contribute reducing terminal size!



Low Voltage

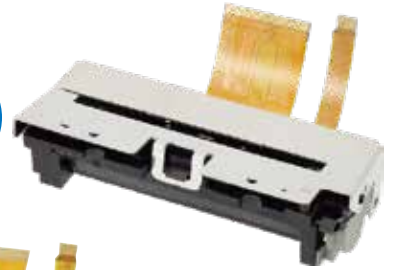
24V

CAP06 Series

- Build in auto paper cutter
- Easy paper operation
- Max. printing speed: 250mm/sec
- Resolution: 8 dots/mm



CAP06-347



CAP06-245



Model	Low Voltage	24V		
	CAP06-245	CAP06-247	CAP06-347	
Printing	Method	Thermal line dot printing		
	Number of dots/line	384	432	576
	Resolution (dots/mm)	8		
	Paper width (mm)	58 ⁺⁰ ₋₁	58 ⁺⁰ ₋₁	58 ⁺⁰ ₋₁ / 80 ⁺⁰ ₋₁
	Printing width (mm)	48	54	72
	Speed (mm/sec) max	100	250	
	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)	3.0 to 3.6		
	Operation voltage(Vp)	4.75 to 9.5	21.6 to 26.4	
Peak current (A)	Head	5.4 (9.5V/96dots)	10.3 (26.4V/288dots)	10.2 (26.4V/288dots)
	Motor	0.6	1.0	
	Cutter	0.7	0.64	
Auto Cutter	Method	Slide type		
	Paper thickness (μm)	48 to 80 ¹		
	Cutting type	Full cut / Partial cut (Leave center point)		
	Operating time(sec/cycle)max	0.5		
	Cutting pitch(mm)min	10		
	Cut frequency(cut/min)max	30		
Service Life	Pulse activation(pulse)	100 million	150 million	
	Abrasion resistance(km)	50 ¹	150 ¹	
	Paper cutting(cut)	500,000 ¹	1,500,000 ¹	
Operating temperature (°C)	-10 to 50 ¹			
Dimensions (W×D×H mm)	87.5 × 43.9 × 27.2 ²	87.5 × 43.9 × 27.2 ²	106.5 × 43.9 × 27.2 ²	
Mass (g)	Approx.135	Approx.140	Approx.163	

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

Interface

Model	IF06-5U	IF06-5S	IF06-7U	IF06-7S
CPU	PT06-57SU			
Thermal printer	CAP06-245		CAP06-247, CAP06-347	
Operating voltage (V)	Vp: 4.75 to 9.5		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	Codepage (13 types), Katakana character set, User-defined character, Downloaded character, Optional font, JIS 1st and 2nd level Kanji, Special characters			
Communication interface	USB (2.0)	Serial (RS-232C)	USB (2.0)	Serial (RS-232C)
Dimensions (W×D×H mm)	69.0 × 50.0 × 14.0			
Software ³	Printer Driver/SDK, Linux® CUPS Filter/SDK		Printer Driver/SDK, OPOS Driver, POS for .NET Driver, Linux® CUPS Filter/SDK	

*3 Please see official homepage "www.sii-ps.com" for detail.

CPU

Model	PT06-57SU	
Thermal printer	CAP06-245	CAP06-247, CAP06-347
Package form	144pin UFBGA	
Operating voltage (V)	Vp: 4.75 to 9.5, Vcc: 3.0 to 3.6	Vp: 21.6 to 26.4, Vcc: 3.0 to 3.6
Input frequency (MHz)	12 ± 0.01%	
Configuration	C-MOS / TTL LSI	
Communication interface	Serial, USB	
Built-in characters	Codepage (13 types), Katakana character set	
Additional characters	CG ROM*4	
Character matrix (H×W dots)	16 dots characters:16 × 8, 16 × 16 / 24 dots characters:24 × 12, 24 × 24	
Dimensions (W×D×H mm)	10.0 × 10.0 × 0.53	
Software ⁵	Printer Driver/SDK, Linux® CUPS Filter/SDK	Printer Driver/SDK, OPOS Driver, POS for .NET Driver, Linux® CUPS Filter/SDK

*4 CG ROM: Japanese *5 Please see official homepage "www.sii-ps.com" for detail.

24V

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°



POS/ECR



Measuring Instrument



Barcode



KIOSK System



Ticket Printer



Gaming



CAPM347

Model		CAPM347		
		Easy paper operation model Regular thermal paper	Loading model 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}	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}	54 to 90 ^{*2}	100 to 150 ^{*2}
	Cutting type	Full cut / Partial cut (Leave center point)		
Service Life	Pulse activation (pulse)	200 million	200 million	100 million
	Abrasion resistance (km)	200 ^{*2}	200 ^{*2}	100 ^{*2}
	Paper cutting (cut)	2,000,000 ^{*2}	2,000,000 ^{*2}	1,000,000 ^{*2}
Operating temperature (°C)	-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
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), User-defined character, Downloaded character, Optional font, JIS 1st and 2nd level Kanji, Special characters
Communication interface	USB(2.0)
Dimensions (W×D×H mm)	60.0 × 80.0 × 14.0
Software ^{*3}	Printer Driver/SDK, OPOS Driver, POS for .NET Driver

*3 Please see official homepage "www.sii-ps.com" for details.



Loading Model



Easy Paper Operation Model

CPU

Model	PTM20P01
Thermal printer	CAPM347
Package form	144ピン 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/SDK, OPOS Driver, POS for .NET Driver

*4 CG ROM: Japanese *5 Please see official homepage "www.sii-ps.com" for details.

24V

LTP04

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



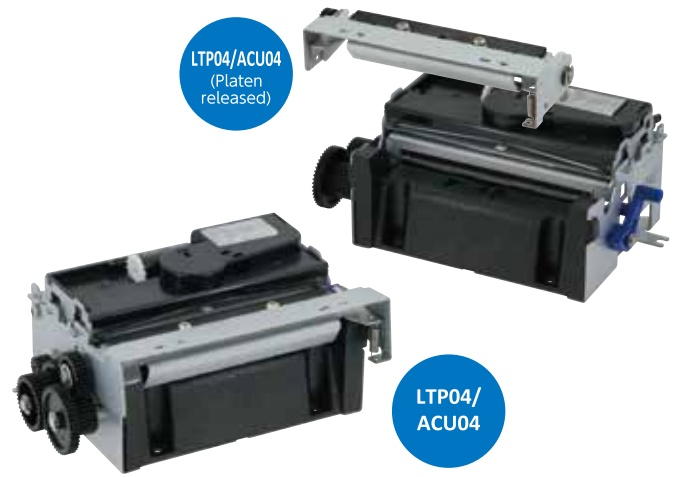
POS/ECR



Measuring Instrument



Gaming

LTP04/ACU04
(Platen released)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
	Head position	By mechanical switch
	Out of paper	By photo interrupter
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/384dots)
	Motor	1.0
Service Life	Pulse activation(pulse)	150 million
	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)	3.0 to 5.0
Peak current (A)		1.3
Life (Cut)		2,000,00 ^{*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.

Other Models Lineup

Thermal Printer Mechanism

LTPZ Series Low Voltage

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

Thermal Printer Mechanism

LTPV Series Low Voltage

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

Thermal Printer Mechanism

LTPH245 Low Voltage

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

Thermal Printer Mechanism

CAPD245/345 Low Voltage

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

Thermal Printer Mechanism

LTP1245 Low Voltage

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

Thermal Printer Mechanism

LTP2000 Series 24V

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

Thermal Printer Mechanism

LTPF Series 24V

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

Thermal Printer Mechanism

CAPD247/347 24V

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

Panel-Mount Printer Unit

DPU-D Series Low Voltage

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



Anytime, Anywhere!!

SII Thermal Printer



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