

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°



Easy Paper Operation Model



Loading Model

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

<sup>\*1</sup> Under specified condition. <sup>\*2</sup> 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 <sup>*3</sup>	Printer Driver/SDK, OPOS Driver, POS for .NET Driver, Linux® CUPS Filter/SDK

<sup>\*3</sup> Please see official homepage "www.sii-ps.com" for details.

## CPU

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

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

Official site <http://www.sih.com.hk/>



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