

Thermal Printer FTP-62GDSL221-R Interface Board

Interface board for 12V FTP-6xGMCL series

Features

- USB Ver. 2.0 (full speed) and RS-232C (max. 230.4kbps) serial interface
- Supports alphanumeric, Kanji, Kana, Thai, Traditional Chinese, registration of image patterns, various barcode printing
- Drivers Windows Vista® Windows® 7, 8, 10
- RoHS compliant

■ Part numbers

Part number	Supply voltage	Interface type	Mechanism part number
FTP-62GDSL221-R	12V	USB Ver. 2.0 RS-232C	FTP-62GMCL173-R FTP-62GMCL173#01-R FTP-62GMCL473-R FTP-62GMCL473#01-R FTP-63GMCL173-R FTP-63GMCL473-R

■ Interface specification at host side

Item	Specifications	
USB V2.0	Transmission rate: Data Input/Output method:	Full speed 12Mbps max. Differential
RS-232C	Data speed: Synchronous method: Handshake: Output level:	9,600 / 230,400 / 115,200 / 38,400 / 19,200 bps* Asynchronous, full-duplex communication RTS (DTR) / CTS (DSR) control, XON/XOFF control* RS-232C level

Note: *Changeable settings to (***) by command

■ Accessories (optional)

Item	Part number	Connector	Length
Interface cable*	USB	FTP-62GY311#01-R	USB-A plug and GHR-05V (J.S.T.)
	RS-232C	FTP-62GY302-R	SHR-05V-S (-B) (J.S.T.) Connector equipped at one side
Power supply cable*	FTP-629Y603-R	VHR-2 (J.S.T.) Connector equipped at one side	0.5m

Note: *Cables are RoHS compliant

■ Specifications

1.1 Base specifications

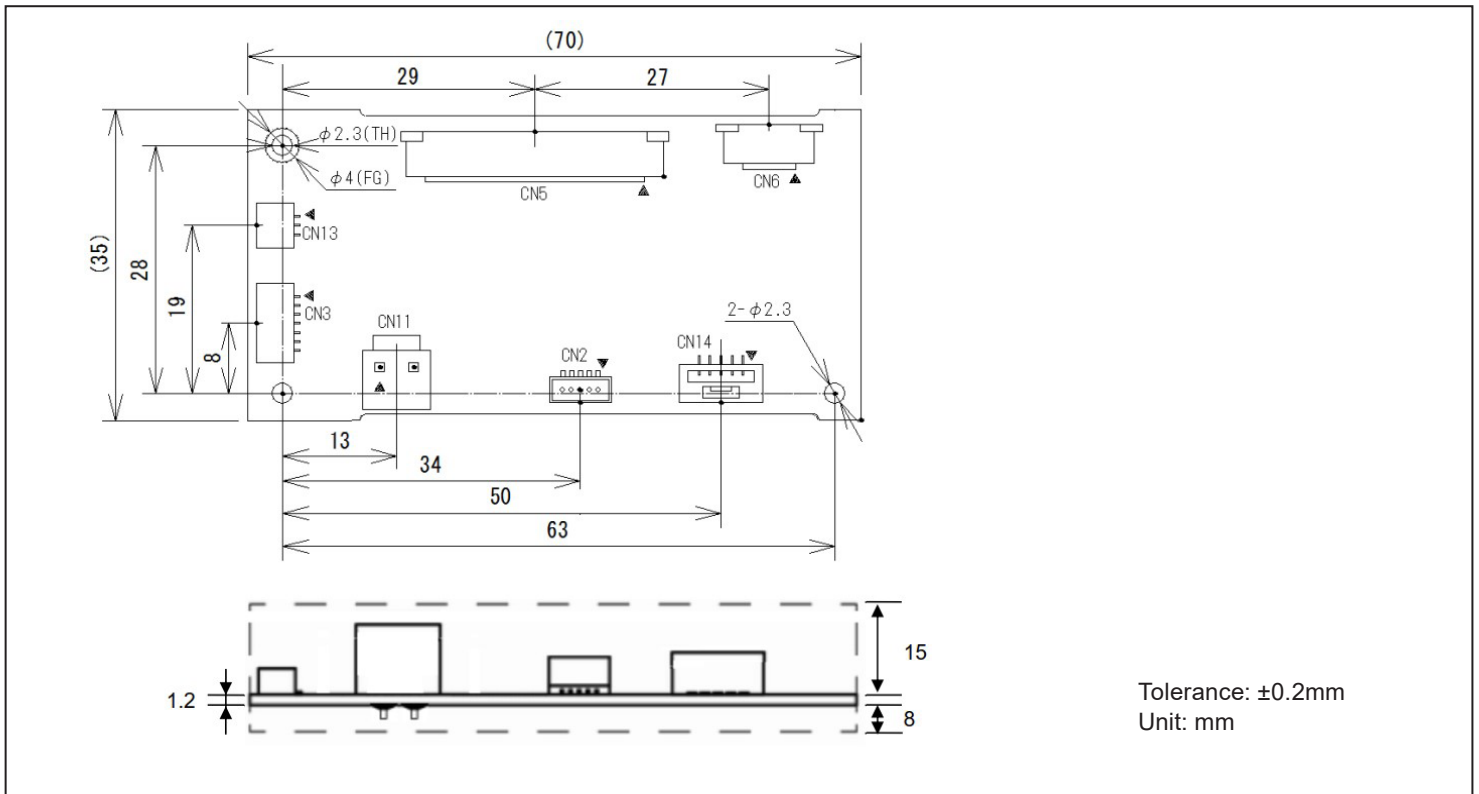
Item	Specifications
Dimensions	70 x 35 x 24.2mm
Weight	Approx. 15g
Communication interface *1	RS-232C USB full speed (max. 12Mbps)

1.2 Print/paper feed specifications

Item	Specifications		
Part number	FTP-62GDSL221-R		
Communication interface	USB Ver.2.0 (full speed), RS-232C		
Power supply	12VDC ±10%		
Printing speed	Max. 120mm/sec.		
	Printing mode	Line mode	
	Character types	Kanji, non-kanji:6,879 Traditional Chinese: 13,503 Alphanumeric and katakana: 159 International and special characters: 195, OCR: 229 Enlarged characters: 12 External characters: 94 Thai code18: 128	
Printing specifications	Character structure *1	8×16 dots, 12×24 dots, 16×16 dots, 24×24 dots, 24×40 dots, 24×48 dots, 36×60 dots	
	Barcode	1D	UPC-A, UPC-E, JAN(EAN)13, JAN(EAN)8, CODE39 ITF, CODABAR, CODE128, GS1 DataBar-14, GS1 DataBar-14 Truncated, GS1 DataBar Limited
		2D	QR code, GS1DataBar-14 stacked, GS1 DataBar-14 Omnidirectional, GS1 DataBar-14 Truncated, GS1 Databar Limited
	Bit image	Size	Horizontal: 8 to 432 dots (2-inch), 8 to 576 dots (3-inch), vertical: 1 to 1023 dots
		Modification	Black-white reversed
Download image	Size	Horizontal: 8 to 432 dots (2-inch), 8 to 576 dots (3-inch), Vertical: 1 to 512 dots (Registration memory capacity : 192k bytes)	
	Modification	Black-white reversed, double width size, double height size, quadruple size, upside down	
Detection function	Mark, paper, near end, thermal head irregularity, power supply irregularity, platen open, cutter irregularity, transmission data irregularity, hardware irregularity, MCU operation irregularity, fuse blow, thermal head's thermal runaway, thermal head's cable disconnection, non-volatile memory irregularity, RAM irregularity, motor temperature irregularity		
Environment	Operating temperature/humidity	0 to 50°C (guarantee: +5 to +40°C, with Meiko Electronic Components recommended thermal paper) 20 to 85%RH (0 to +40°C, In the range of +40 to +50°C, gradual decrease up to 52%RH at 5°C, gradual decrease down to 12%RH at 50°C)(No condensation)	
	Storage temperature/humidity	-20 to +60°C (excluding paper), 5 to 90%RH (No condensation)	
Mean time between failure (MTBF)	500,000 hours		

*1: Depending on embedded characters

■ Dimensions



■ Control circuit board and connector types

Symbol	Name	Function	Note
CN11	Power supply connector	To connect +12V power supply	-
CN2	RS-232C I/F connector	To connect RS-232C interface	-
CN3	External I/F connector	I/O	-
CN14	USB I/F connector	To connect USB	-
CN5	Head / motor connector	FPC connection	-
CN6	Motor / auto cutter connector	FPC connection	-
CN13	Near end connector	I/O connection	-

■ Connector Pin Assignment of interface board

Note: Symbol “-” means a negative logic signal.
 “I” or “O” means a signal direction from the interface board side.(I: input, O: output)
 Equipped connectors may be changed. Please check carefully when using equivalent connectors.

- Power supply connector (CN11)
 Mating connector part number: VHR-2N (J.S.T.) or equivalent

No.	Signal	I/O	Content	No.	Signal	I/O	Content
1	Vp	I	Power input	2	GND	I	Ground

- RS-232C connector (CN2)
 Mating connector part number: SHR-05V-S (-B) (J.S.T.) or equivalent

No.	Signal	I/O	Content	No.	Signal	I/O	Content
1	RXD	I	Receive data signal	2	TXD	O	Transmission data signal
3	RTS (DTR)	O	Request to send signal	4	GND	-	Signal ground
5	CTS (DSR)	I	Clear to send signal				

- External I/O connector (CN3)
 Mating connector part number: SHR-07V-S (J.S.T.) or equivalent

No.	Name	I/O	Description	No.	Name	I/O	Description
1	/RST	I	Initialization request signal	2	/ATF	I	Paper feed signal
3	/SIN	I	Detection function setting signal	4	LED1	O	POWER LED signal
5	LED2	O	ERROR LED signal	6	/CUT	I	Paper cut signal
7	GND	-	Signal ground				

- USB connector (CN14)
 Mating connector part number:GHR05V-S (J.S.T.) or equivalent

No.	Signal	I/O	Content	No.	Signal	I/O	Content
1	Vbus	I	Vbus signal	2	D-	I/O	D- signal
3	D+	I/O	D+ signal	4	GND	-	Signal ground
5	FG	-	Frame ground				

- Near end connector (CN13)
 Mating connector part number:SHR-03V-S (J.S.T.) or equivalent

No.	Signal	I/O	Content	No.	Signal	I/O	Content
1	NVCC	O	Near end sensor power	2	/NES	I	Near end signal input
3	GND	-	Near end signal ground				

■ Connector pin assignement of interface board

(CN5) Head motor connector

Insert flexible printed circuit (FPC) of printer mechanism

(CN6) Head/auto cutter connector

Insert flexible printed circuit (FPC) of printer mechanism

Contact

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