

24V DRIVE INTERFACE BOARD (SERIAL)

FTP-622DSL001/011/012/112

FOR FTP-622/632/642MCL001/002/301/302/303/304

■ DESIGNATION

Product	Part Number	Function
SERIAL INTERFACE BOARD	FTP-622DSL001	STD (without cutter)
	FTP-622DSL011	With Cutter Controller
	FTP-622DSL012	With Cutter Controller + FLASH ROM
	FTP-622DSL112	With Cutter+KANJI+FLASH ROM

■ SPECIFICATION

Item	Specification
Data receive speed	19200, 9600, 4800, 1200 bps (set by dip switch)
Synchronous method	Asynchronous, full duplex
Hand shake	DTR/DSR signal or XON/XOFF
Input output level	RS232C
Signal level	Space (logic = 0) +3 V ~ +12 V Mark (logic = 0) -3 V ~ -12 V

■ INTERFACE

SERIAL INTERFACE (RS232C)

(1) Connector (CN2)

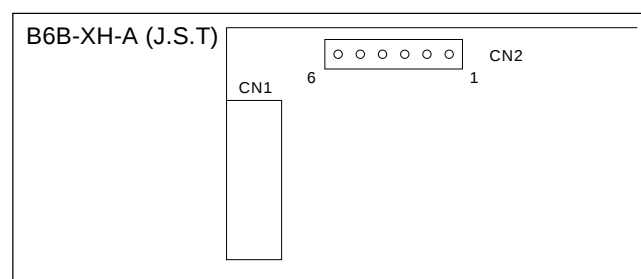
Part number : B6B-XH-A (J.S.T)
Mating connector part number : XHP-6 (J.S.T) or equivalent

(2) Pin assignment

No.	Signal	I/O	Contents	No.	Signal	I/O	Contents
1	FG	—	Frame GND	2	RD	I	Receive data
3	TD	O	Transmission Data	4	DTR	O	Data terminal ready
5	GND	—	Signal GND	6	DSR	I	Data set ready

Notes: "I" or "O" means a signal direction from the interface board side.

(3) Pin number



■ INTERFACE BOARD PIN ASSIGNMENT

1. Connector for power supply (CN10)

Part number : B6P-VH (J.S.T)

Mating connector part number : VHR-6N (J.S.T) or equivalent

No.	Signal	I/O	Contents	No.	Signal	I/O	Contents
1	V _{CC}	—	Power supply for logic (+5 V)	2	GND	—	GND (5 V, 24 V common)
3	GND	—	GND (5 V, 24 V common)	4	GND	—	GND (5 V, 24 V common)
5	V _{DD}	—	Power for head/motor (+24 V)	6	V _{DD}	—	Power for head/motor (+24 V)

2. Connector for thermal head drive (CN8)

Part number : B16B-PH-K-S (J.S.T)

Mating connector part number : PHR-16 (J.S.T) or equivalent

No.	Signal	I/O	Contents	No.	Signal	I/O	Contents
1	VDH	O	Power for head (+24 V)	2	VDH	O	Power for head (+24 V)
3	GND (VDH)	—	Head GND	4	GND (VDH)	—	Head GND
5	STB1	O	Print enable signal 1	6	STB2	O	Print enable signal 2
7	STB3	O	Print enable signal 3	8	TMP	I	Temperature detection signal
9	STB4	O	Print enable signal 4	10	LAT	O	Print data latch signal
11	STB5	O	Print enable signal 5	12	5 VH	O	Power for logic (+5 V)
13	HCLK	O	Data transmission clock	14	HD	O	Print data output signal
15	GND (VDH)	—	Head GND	16	VDH	O	Power for head (+24 V)

Notes:

- Symbol “—” means a negative logic signal.
- “I” or “O” means a signal direction from the interface board side.

3. Connector for sensor (CN3)

Part number : B5B-PH-K-S (J.S.T)

No.	Signal	I/O	Contents	No.	Signal	I/O	Contents
1	+5 V	—	Power for logic (+5 V)	2	PES	I	Paper end detect signal
3	GND (5 V)	—	Logic GND	4	+5 V	—	Power for logic (+5 V)
5	HUP	I	Head-up detect signal				

4. Connector for paper near end detection (CN5)

Part number : B2B-PH-K-S (J.S.T)

Mating connector part number : PHR-2 (J.S.T) or equivalent

No.	Signal	I/O	Contents	No.	Signal	I/O	Contents
1	+5 V	—	Power for logic (+5 V)	2	NES	I	Paper near end detect signal

5. Connector for stepping motor drive (CN13)

Part number : B4B-PH-K-S (J.S.T)

No.	Signal	I/O	Contents	No.	Signal	I/O	Contents
1	MT/B	O	Stepping motor coil excitation	2	MT/B	O	Stepping motor coil excitation
3	MT/A	O	Stepping motor coil excitation	4	MT/A	O	Stepping motor coil excitation

6. Connector for cutter drive (CN11) *¹

Part number : B4B-EH (J.S.T)

No.	Signal	I/O	Contents	No.	Signal	I/O	Contents
1	SW1	I	Cutter position detect signal	2	GND	—	Logic ground
3	M+	O	Motor control signal (+)	4	M-	O	Motor control signal (-)

*¹: only for FTP-622DSL011/012/112

7. Connector for control signal input/ output (CN1)

Part number : FCN-605Q030-G/S (Fujitsu Components)

Mating connector : FCN-607B030-G/D (Fujitsu Components) or equivalent

No.	Signal	I/O	Contents	No.	Signal	I/O	Contents
1	NC	—	No connection	2	NC	—	No connection
3	NC	—	No connection	4	NC	—	No connection
5	NC	—	No connection	6	NC	—	No connection
7	NC	—	No connection	8	NC	—	No connection
9	NC	—	No connection	10	NC	—	No connection
11	NC	—	No connection	12	NC	—	No connection
13	NC	—	No connection	14	NC	—	No connection
15	NC	—	No connection	16	NC	—	No connection
17	NC	—	No connection	18	NC	—	No connection
19	NC	—	No connection	20	NC	—	No connection
21	NC	—	No connection	22	NC	—	No connection
23	NC	—	No connection	24	NC	—	No connection
25	$\overline{\text{SLCTIN}}$	I	Select signal	26	$\overline{\text{INPRM}}$	I	Reset signal
27	NC	—	No connection	28	NC	—	No connection
29	$\overline{\text{ATF}}$	I	Paper feed request	30	GND	—	GND

*Do not connect outside signal to NC.

■ PRINTING COMMANDS (RS-232C STANDARD INTERFACE)

Name	Command	Contents
Tab	HT	Moves the print position to the next tab.
Line feed	LF	Prints buffer data and returns the line by set feed length.
Form feed	FF	Prints buffer data and returns the line to left end of next form.
Reverse print set	ESC RS	Sets reverse printing.
Reverse print reset	ESC US	Resets reverse printing.
Print mode set	ESC ! +n	Sets print mode.
Bit image mode set	ESC* +m+n ₁ +n ₂ +d ₁ ~d _N	Sets the bit image mode "m" for n ₁ , n ₂ dot numbers.
1/6" line feed set	ESC 2	Sets 1/6 inch line feed length.
Line feed length set	ESC 3 + n	Sets the line feed length.
Printer reset	ESC @	Clears buffer data and initializes all set.
Space between the line set	ESC A+n	Sets the space between the line.
Page length set	ESC C+n	Sets the page length by character line.
Tab position set	ESC D+d ₁ ~d _N +NUL	Sets the tab position.
Forward paper feed	ESC J+n	Feeds paper in forward direction.
Reverse paper feed	ESC K+n	Feeds paper in reverse direction.
Internal disposal set	ESC c+1+n	Sets the internal disposal.
International character select	ESC R+n	Selects the international character.
Printing speed set	ESC s+n	Sets the printing speed.
Forward line feed length "n"	ESC d+n	Line feed in "n" lines after printing.
Reverse line feed length "n"	ESC e+n	Reverse line feed in "n" lines after printing.
Character code table select	ESC t+n	Selects the character code table page "n".
Upside down print set/reset	ESC {+n	Sets/resets upside down printing.
Kanji print mode set* ¹	FS ! +n	Sets the Kanji print mode.
Kanji mode set* ¹	FS &	Sets Kanji mode.
Kanji mode reset* ¹	FS .	Resets Kanji mode.
Kanji code system select * ¹	FS C+n	Selects Kanji code type.
Detect function set	FS 9+n	Sets the detection functions.
4 times enlarged character set/reset	FS W+n	Sets/resets 4 times enlarged character.

*1: only for FTP-622DSL112

(Continued)

(Continued)

Name	Command	Contents
GS <		Line feeds to the next mark.
GS A+m+n		Sets the line feed length after mark detection.
GS E+n		Sets the printing quality conforming to the selected paper.
GS V+n+m		Executes paper cutting* ³ .
GS e+n+m		Sets the bar width.
GS h+n		Sets the barcode height.
GS k+m+n+d ₁ ~d _N		Selects the barcode type and prints.
GS w+n		Sets the barcode length.
ESC %+n		Selects the font to download* ² .
ESC &+y+c ₁ +c ₂ +x+d ₁ ~d _N		Registers the download font* ² .
FS *+m+n ₁ +n ₂ +d ₁ ~d _N		Prints image data on SRAM.
GS &+m+x+y ₁ +y ₂ +d ₁ ~d _N		Registers image data* ² .
GS '+m+n		Prints the registered image data* ² .
GS a+n		Notifies of printer status.
FS r+n		Notifies of printing finish.
ECS ?+n		External registration character deletion* ² .
FS E+n		Correction of impressed energy.
ESC V+n		Right Rotation 90° specification / cancellation.
ESC EM+n		Setting the amount of the feeding at automatic paper feed.
ESC X+n+m		Setting the turning time of the motor excitation.

*2: Only for FTP-622DSL012 & 112. *3: Only for FTP-622DSL011/012/112

■ OPTIONS

1. Cable (With FTP-622MCL, FTP-632MCL, FTP-642MCL)

Name	Part Number	Cable Length
Thermal head connection cable (CN8)*	FTP-622Y001	270 mm (10.6 inches)
Interface cable	Centronics (CN1)	FTP-622Y201
	Serial (CN 2) RS232	FTP-622Y301
Power cable for head, motor, and logic (CN10)	FTP-622Y401	300 mm (11.8 inches)
* short cable option	FTP-624Y001	150 mm (5.9 inches)

2. Paper holder

Name	Part number
Flange	FTP-040HF
Stand	FTP-040HS

Fujitsu Components International Headquarter Offices

Japan

Fujitsu Component Limited
Gotanda-Chuo Building
3-5, Higashigotanda 2-chome, Shinagawa-ku
Tokyo 141, Japan
Tel: (81-3) 5449-7010
Fax: (81-3) 5449-2626
Email: promothq@ft.ed.fujitsu.com
Web: www.fcl.fujitsu.com

North and South America

Fujitsu Components America, Inc.
250 E. Caribbean Drive
Sunnyvale, CA 94089 U.S.A.
Tel: (1-408) 745-4900
Fax: (1-408) 745-4970
Email: marcom@fcai.fujitsu.com
Web: www.fcai.fujitsu.com

Europe

Fujitsu Components Europe B.V.
Diamantlaan 25
2132 WV Hoofddorp
Netherlands
Tel: (31-23) 5560910
Fax: (31-23) 5560950
Email: info.marketing@fceu.fujitsu.com
Web: www.fceu.fujitsu.com

Asia Pacific

Fujitsu Components Asia Ltd.
102E Pasir Panjang Road
#04-01 Citilink Warehouse Complex
Singapore 118529
Tel: (65) 375-8560
Fax: (65) 273-3021
Email: fcal@fcal.fujitsu.com
www.fcal.fujitsu.com

© 2001 Fujitsu Components America, Inc. All company and product names are trademarks or registered trademarks of their respective owners. Rev. 09/2001