FUjitsu

24V DRIVEN RECEIPT, TICKET PRINTER 3" KIOSK PRINTER UNIT

FTP-639USL100/200-R Series

OVERVIEW

The FTP-639USL Series is 24V driven receipt printer unit with cutter for 3 inch wide paper. The unit has our high-speed FTP-639MCL mechanism, cutter and control board, with an integrated paper feed and built-in paper guide section.

The receipt printer unit is most suitable for applications such as Kiosk, ATM, receipt, label, and ticket issuing printers for various other equipment.

FEATURES

- External presenter option
- Medium duty unit (mounting is easy)
- Ultra high speed printer (125/200mm / sec.)
- · Auto cutter included
- · Paper near end-detection function
- Up to 6 inch paper roll diameter
- · Rear paper auto loading
- · Paper jam detection
- · Prints 2-D barcodes

DESIGNATION



FTP-639USL100 horizontal, without presenter





FTP-639USL200 - with presenter

Item		Part Number	Comment
	USB (ver 2.0)	FTP-639USL101*	without presenter and
	Serial (RS-232C) / USB	FTP-639USL102*	with paper arm
Drinter medule interfece	USB (ver 2.0)	FTP-639USL111*	without presenter and
Printer module interface	Serial (RS-232C) / USB	FTP-639USL112*	without paper arm
	USB (ver 2.0)	FTP-639USL201*	with presenter and with
	Serial (RS-232C) / USB	FTP-639USL202*	paper arm
	USB interface	FTP-629Y301	
Cables	Serial interface	FTP-629Y302	
	Power for logic, head, motor	FTP-629Y603	

*: Interface board is FTP-629DSL350 series

■ SPECIFICATIONS

	Item	Specifications	
Part number		FTP-639USL101/102/201/202	
Printing method		Thermal-sensitive line dot method	
Dot structure		576 dots/line	
Dot pitch (Horizont	al)	0.125 mm (8 dots/mm)—Dot density	
Dot pitch (Vertical)		0.125 mm (8 dots/mm)—Line feed pitch	
Effective printing a	rea	72 mm	
Paper width		80 ⁺⁰ mm	
Paper thickness		60 to 100 μm	
Paper print length		60 to 254mm	
Cutting type		Full or partial	
Number of columns	S	48 columns/line (12×24 dot font)	
Maximum printing speed		1600 dotlines/s (200 mm/s)	
Page mode	Middle speed mode	80mm/sec. without automatic division	
High speed mode		125 mm/sec.without automatic division	
Ultra high speed mode		200 mm/sec.without automatic division	
Character types		Alphanumeric KANA: 159, Registered: 94, International: 195, OCR I: 103, OCR III: 23, OCR IV: 103, JIS KANJI: approximately 6800	
Character composi Number of characte	tion, dimensions (H×W), ers	24 × 12 dots, (3.0 × 1.5 mm), 48 columns 24 × 24 dots, (3.0 × 3.0 mm), 24 columns 16 × 8 dots, (2.0 × 1.0 mm), 72 columns 16 × 16 dots, (2.0 × 2.0 mm), 36 columns OCR I: 24 × 40, 24 columns OCR III: 24 × 48, 24 columns OCR IV: 36×60, 16 columns Expanded: 24×48, 24 columns	
Interface		Serial (RS232C), USB	
Power supply For head		24VDC ± 5%, Voltage Current : average ^{*1} (): Peak 12.5% printing ratio 1.5 (2.2) A (at 200 mm/s printing speed, 1 division) 0. 8(1.1) A (at 125 mm/s printing speed, 2 divisions) 0.7 (1.1) A (at 80 mm/s printing speed, 2 divisions) 0.6 (2.0) A (at 80mm/s printing speed, automatic division)	
	For print motor	24VDC ± 5%, 1.3 A maximum, 1.0A average	
	For presenter	24VDC ± 5%, 1.3 A maximum, 1.0A average	
	For cutter	24VDC ± 5%, 1.4 A maximum	
	For logic	5VDC ± 5%, 0.2 A maximum (converted from 24V)	

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Item		Specifications		
Dimensions		120.0(W) × 100.0(D) × 80.0(H) mm		
Weight (mechanis	m, cutter, board, frame)	Approx. 760g without arm, 990g with arm. 1200g with arm & presen	ter	
Expected life	Mechanism	Pulse durability : 100 million pulse/dot (using Fujitsu's standard driving method) Wear resistance: 100 km (at 12.5% printing ratio)		
	Cutter	1,000,000 cuts		
	Platen	5,000 cycles		
	Operating temperature	-20°C to +60°C		
Environmental	Operating humidity	10 to 85% RH (no condensation)		
conditions Storage temperature -25°C to +6		–25°C to +65°C (excluding paper)		
	Storage humidity	5 to 90% RH (no condensation)		
	Head temperature	By thermistor (applied energy control, abnormal temperature detecti	ion)	
Detection	Paper out/Mark detect	By photointerrupter		
	Platen open	By microswitch		
	Near end paper	By mechanical switch		
Recommended th	ermal sensitive paper	For rear insertion use (80 mm width): FTP-030P0701/P0102Recommended papers: Oji Paper: PD150R,PD160R-N,PD1· NIPPON Paper: TF50KS-E,TF60KS-E, TF50KS-E4· MITSUBISHI Paper Mills: P220VBB-1,AFP-235	70R	
Paper diameter	Standard	83mm		
	Extended	150mm		

*1: 24VDC, minimum head resistance.

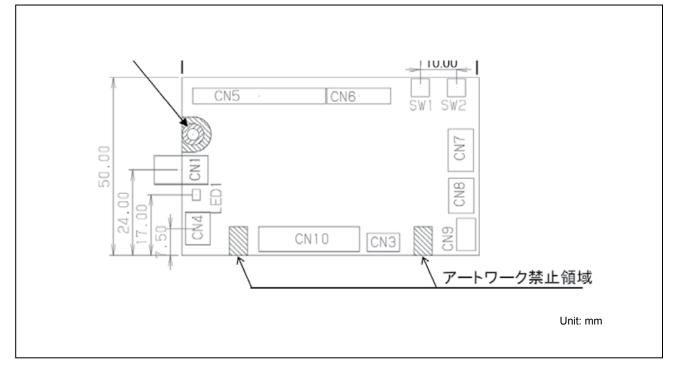
■ FUNCTIONS

	Item		Item
1.	Test print function	9.	Internal RAM abnormality detection
2.	Paper feed	10.	Cutter abnormality detection
3.	Paper out detection	11.	Mark detection
4.	Paper near end detection	12.	MCU operation abnormality detection
5.	Platen open detection	13.	Motor power saving
6.	Thermal head temperature abnormality detection	14.	Power supply disconnection protection
7.	Motor temperature detection	15.	Motor protection
8.	Voltage abnormality detection	16.	Thermal head protection

■ INTERFACE, COMMAND, OPTIONS Please refer to the FTP-629DSL350 series. Interface command options, please see FTP-609 datasheet.

EXTERNAL DIMENSION SPECIFICATIONS

1. External Dimension Chart of the Control Board



2. Connector Types of Control Board for Printer and Cutter

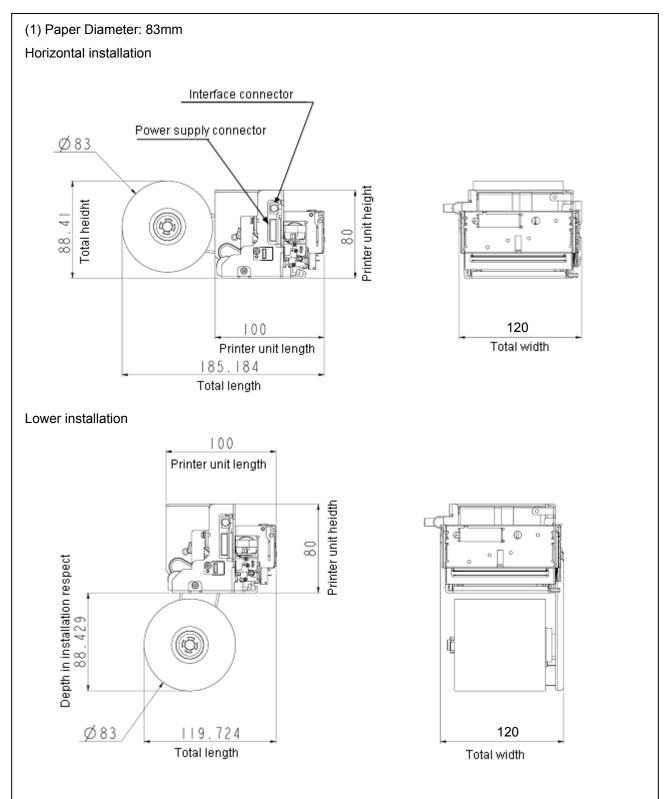
No.	Name	Function	Remarks
CN1	Power connector	Connect +24V power supply	-
CN2	RS-232 connector	Connect RS-232 interface	depends on models
CN3	Operation panel connector	Connect to operation panel	-
CN4	USB interface connector	Connect USB interface	depends on models
CN5	Thermal head connector	Connect thermal head -	
CN6	Paper feed motor	Connect paper feed motor -	
CN7	Cutter connector	Connect cutter motor	-
CN8	Near end connector	Connect near end switch or sensor	-
CN9	External sensor connector	Connect external sensor	optional
CN10	Presenter connector	Connect control board	depends on model

3. Connector Types of Control Board for Presenter

No.	Name	Function	Remarks
CN1	Control board connector	Connect control to board	-
CN3	Paper sensor connector	Connect to paper feed sensor	-
CN5	Paper feed motor connector	Connect to paper feed motor	-
CN6	Motor and sensor connector	Connect to motor and sensor	-

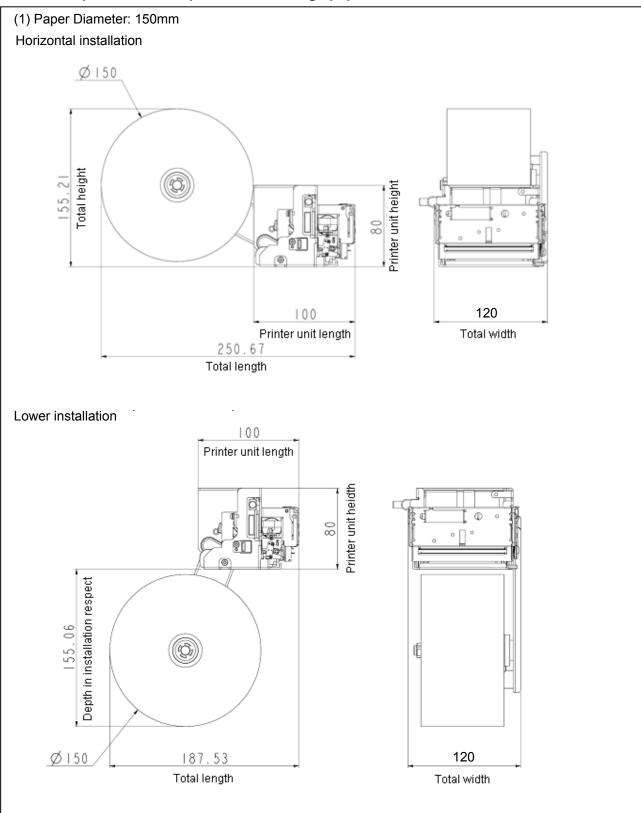
DIMENSIONS

Modular printer without presenter and standard paper roll



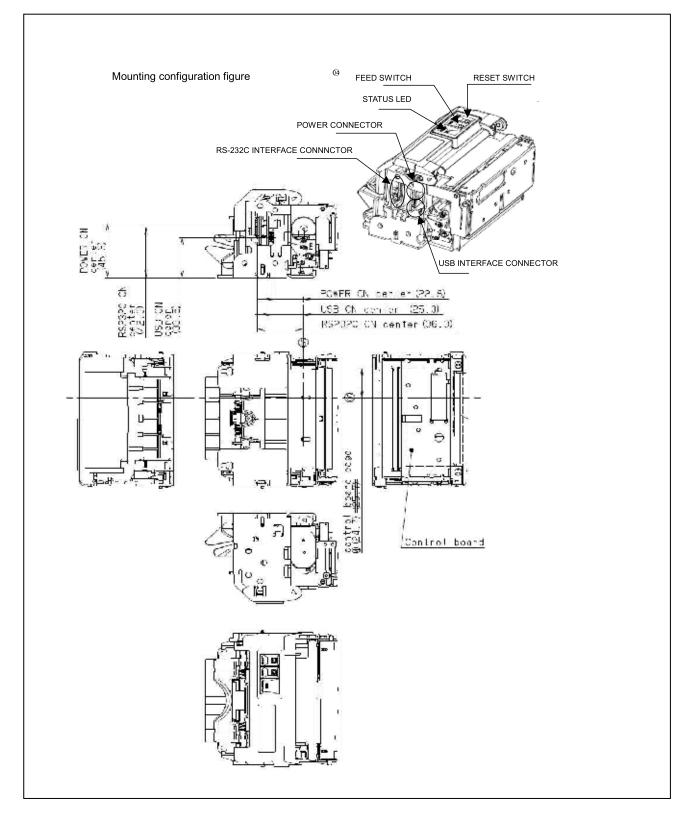
DIMENSIONS





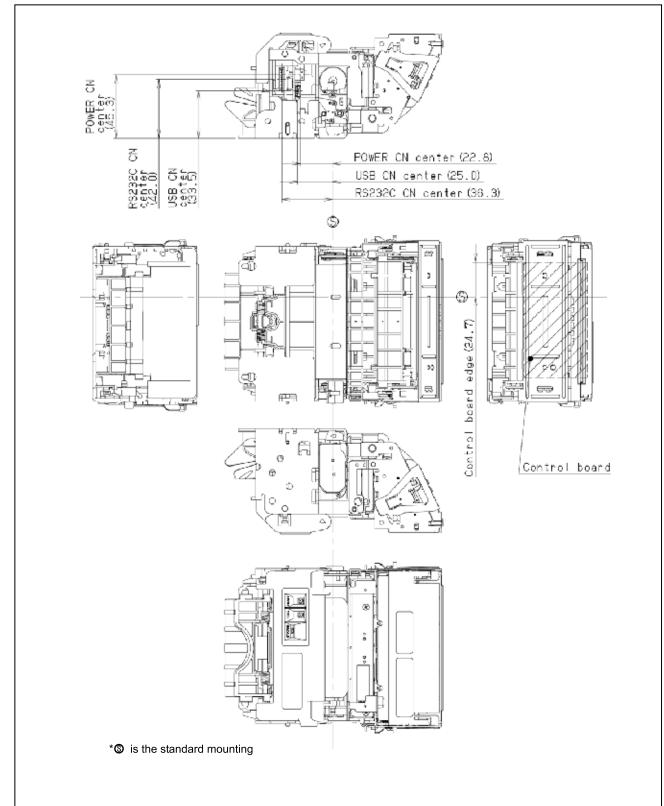
DIMENSIONS

Printer without presenter



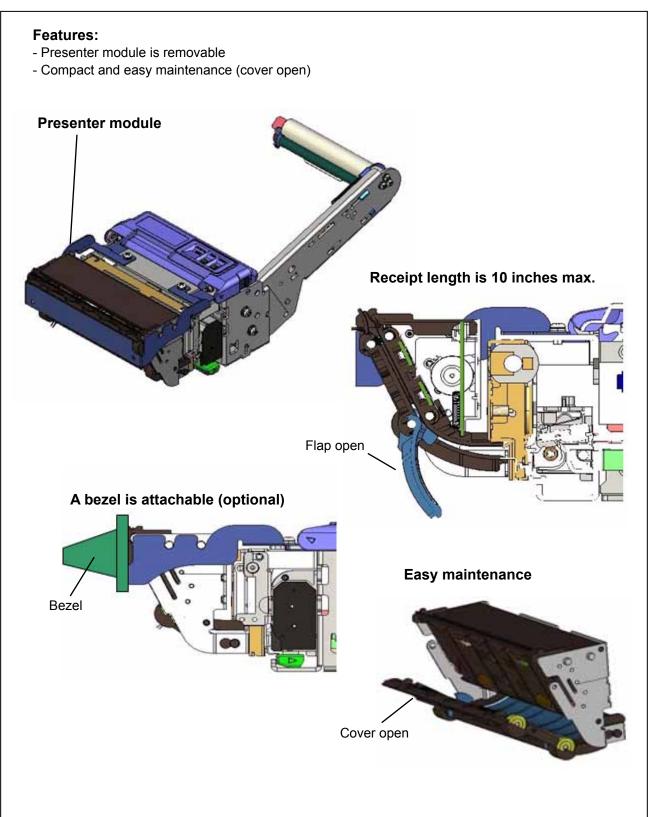
DIMENSIONS

Modular printer with presenter



FTP-639USL100/200-R Series

■ STRUCTURE OF PRESENTER MODULE



■ COMMANDS

HT Moves print position to the next tab. LF Line feed. FF Feeds forms (new page). ESC EM+n Setting the amount of the feeding at automatic paper feed. ECS RS Sets reverse printing. ESC US Resets reverse printing. ESC US Resets reverse printing. ESC SP+n Character spacing setting. ESC *+ n Sets print mode. ESC & ++ n External registration character specification/cancellation. ESC *+ n External registration character definition. ESC 2 Sets thi image mode. ESC 2 Sets thi line feed length. ESC 3+n Sets the line feed length. ESC 3+n Sets the line feed length. ESC @ Printer initialization. ESC @ Printer initialization. ESC A+n Sets the page length by character line. ESC J+n Feeds paper in forward direction and prints. ESC J+n Feeds paper in forward direction and prints. ESC J+n Feeds paper in forward direction / cancellation. ESC C+n Reverse paper feed. ESC C+n Reverse paper feed. E	Command	Contents	
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ESC X+m+nSetting the turning time of the motor excitation.ESC c+1+nSets internal processing.ESC c+5+nPanel switch enable/disable setting.ESC d+nPrinting and n-line feeding.ESC e+nPrints and reverse feeds n-lines.ECS s+nSets printing speed.ECS t+nCharacter code table selection.	ESC R+n	Selects international character.	
ESC c+1+nSets internal processing.ESC c+5+nPanel switch enable/disable setting.ESC d+nPrinting and n-line feeding.ESC e+nPrints and reverse feeds n-lines.ECS s+nSets printing speed.ECS t+nCharacter code table selection.	ESC V+n	Right Rotation 90° specification / cancellation	
ESC c+5+nPanel switch enable/disable setting.ESC d+nPrinting and n-line feeding.ESC e+nPrints and reverse feeds n-lines.ECS s+nSets printing speed.ECS t+nCharacter code table selection.	ESC X+m+n	Setting the turning time of the motor excitation.	
ESC d+n Printing and n-line feeding. ESC e+n Prints and reverse feeds n-lines. ECS s+n Sets printing speed. ECS t+n Character code table selection.	ESC c+1+n	Sets internal processing.	
ESC e+n Prints and reverse feeds n-lines. ECS s+n Sets printing speed. ECS t+n Character code table selection.	ESC c+5+n	Panel switch enable/disable setting.	
ECS s+n Sets printing speed. ECS t+n Character code table selection.	ESC d+n	Printing and n-line feeding.	
ECS t+n Character code table selection.	ESC e+n	Prints and reverse feeds n-lines.	
	ECS s+n	Sets printing speed.	
ESC {+n Sets/resets upside down printing.	ECS t+n	Character code table selection.	
	ESC {+n	Sets/resets upside down printing.	

Commands continued

Command	Contents
ESC DEL+n	
FS !+n	Kanji printing mode collective specification.
FS &	Kanji printing mode specification.
FS - + n	Kanji underline specification/cancellation.
FS *+ m+n1+n2+d1 to dn	High speed collective image printing specified.
FS.	Kanji printing mode cancellation.
FS 2+c1+c2+d1 to dn	External character definition.
FS 9+n	Sets the detection functions.
FS C+n	Kanji code system selection.
FS E+n	Correction of impressed energy.
FS S+n+n1+n2	Kanji spacing setting.
FS W+n	Kanji double height adn width printing specification/cancellation.
FS r+n ^{*1}	Parameter transmission.
GS ! + n	Character size specification.
GS & +m + x + y1 + y2 + d1 to dn	Registered bit image definition.
GS' + m + n	Registered bit image printing
GS (+E+L1+L2+n+d,~dq	RS-232C communication setting*1
GS <	Line feeds to the next mark.
GS A+m+n	Sets the line feed length after mark detection.
GS E+n	Sets print quality.
GS L+n1+n2	Left margin position setting.
GS V+m+n	
GS W + n1 + n2	Printing area width setting.
GS a+n	Automatic status transmission setting*1
GS e+n+m	Sets bar code width.
GS h+n	Sets bar code height.
GS k+m+n+ d1 to dn	Bar code printing.
GS k+m+m+k1+k2+k3+k4+p+d+dn~NUL	Print 2-barcode (QR).

 $^{\rm *1}$: These commands are valid with FTP-629DSL350 series serial interface.

Commands continued

Command	Contents	
GS k+m+m+k1+k2+k3+k4+n+nn+d1~dn	Print 2-D barcode (PDF417)	
GS s	Paper check.	
GS t+n	Paper exit.	
GS w+n	Sets bar code length.	
GS x+n	Paper retract.	

OPTIONS

1. Cables

Name		Part Number	Cable length
Interface cable (board to	USB	FTP-629Y301	500mm (19.7 inch)
mechanism)	RS-232C	FTP-629Y302	500mm (19.7 inch)
Power supply cable	Logic, head, motor	FTP-629Y603	300mm (11. 8inch)

2. Driver LSI of Control Board

Name	Part Number	Quantity / Tray	Remarks
MCU	FTP-629CU350	84	On-board Flash and SRAM

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