

24V DRIVEN, RECEIPT PRINTER MINI UNIT 2" HIGH SPEED THERMAL PRINTER UNIT FTP-627USL431/631

OVERVIEW

The FTP-627 USL Series are 24V driven high-speed printers with a ultra low profile auto cutter and long life. The FTP-627 USL Series can be used for a variety of applica tions, such as POS terminals, mini Kiosks, banking terminals, and measurement and medical equipment.

FEATURES

- Ultra low profile Height 145 mm, width 105 mm, depth 120 mm
- Windows®2000/XP, Linux, and OPOS drivers
- High speed printing

It can print at 100 mm/s (or 150 mm/s) maximum by using Fujitsu's unique head drive control.

- Auto Cutter
 Long life and high reliable guilotine with dedicated motor.
- Easy paper loading

Our lever platen release mechanism allows a wide paper route, so 83mm diameter paper can be easily inserted.

- Multifunctional die-cast frame
 Wide operating temperature range, long continuous printing, high ESD absorbtion and discharge of static electricity vibration and shock resistant.
- Barcodes
 Prints standard, extended and 2-D types
- RoHS compliant



FTP-627USL431/631

PART NUMBERS

		Part Number	Power	Paper roll
Printer mechanism /cutter and board		FTP-627USL431/631 (USB Interface)	5V / 24V	with spool
		FTP-627USL432/632 (USB Interface)	5V / 24V	drop-in
		FTP-627USL435/635 (Serial Interface)	5V / 24V	with spool
		FTP-627USL436/636 (Serial Interface)	5V / 24V	drop-in
		FTP-627USL440/640 (USB /Serial)	24V only	drop-in
			Length	
Operation panel cable		FTP-627Y203	300mm	
Interface cables	Serial (RS-232C)	FTP-628Y302	500mm	
	USB (V1.1)	FTP-629Y301	1,000mm	
Power cables Logic		FTP-629Y401	300mm	
	Head, Motor	FTP-629Y601	300mm	

* Interface board is the FTP-627DSL601R (Serial /USB), FTP-627DSL603/613-R (USB), FTP-627DSL605/615-R (Serial)

■ SPECIFICATIONS

Item		Sr	pecifications
Part number		FTP-627USL431/432/435/436	FTP-627USL631/632/635/636
Printing method		Thermal-line dot method	
Dot structure		432 dots/line	
Dot pitch (Horizontal)		0.125 mm (8 dots/mm)—Dot de	nsity
Dot pitch (Vertical)		0.125 mm (8 dots/mm)—Line fe	ed pitch
Effective printing area		54 mm	
Number of columns		ANK 36 columns/line (maximum	12 x 24 dot font)
Paper width		58 mm	
Paper diameter		83 mm	
Paper thickness		60 to 100 μ m (some paper in this range may not be used because of paper characteristics)	
Printing Speed	USL4xx	Maximum 100mm/sec. (800 dot line/sec.) at 24V, 25°C	
	USL6xx	Maximum 150mm/sec. (1200 dot line/sec.) at 24V, 25°C	
Character types		Alphanumeric, kana: International characters: JIS Kanji (Kanji CG loaded boar	159 types 195 types d): about 6800 types
Character, dimensions (W×H), number of columns		12 × 24 dots, (1.5 × 3.0 mm), 36 columns: ANK 24 × 24 dots, (3.0 × 3.0 mm), 18 columns: ANK 8 × 16 dots, (1.0 × 2.0 mm), 54 columns: ANK 16 × 16 dots, (2.0 × 2.0 mm), 27 columns: ANK	
Standard		UPC-A, UPC-E, JAN (EAN) 13, JAN (EAN) 8, Code 39, 1TF CODABAR	
Barcodes	Extended	CODE128	
	2-D	QR, Maxi , PDF417	
Printing mode		Page mode, line model	

■ SPECIFICATIONS

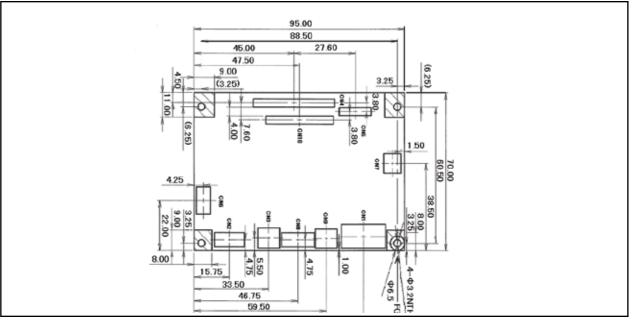
Item		Specification		
Part Number		FTP-627USL431/432/435/436	FTP-627USL631/632/635/636	
Interface		Conforms to USB / Serial		
	For print head	24 VDC average current, 0.5A (0.9A peak)		
		(print ratio: 12.5%, print speed: 1	00mm/sec.)	
Power	For motor	24 VDC ±5%, 0.8 A maximum		
supply	For cutter	24 VDC ±5%, 1.1 A maximum		
	For logic	5 VDC ±5%, 0.2 A maximum		
Dimensions	Mechnism and board	101 x 114 x 139mm (WxDxH)		
Weight	Mechnism and board	Approximately 600g		
		Pulse resistance: 100 million puls	ses/dot (under out standard	
	Head	conditions); Abrasion resistance:	paper traveling distance	
Life		50km (print ratio: 12.5% or less)	100km (print ratio: 12.5% or less)	
	Cutter	500,000 cuts (20 cuts/minute)	1,000,000 cuts	
	Platen	5,000 (open/close)		
МТОГ	Mechanism	3,000 hours		
MTBF	Circuit board	500, 000 hours		
	Operating temperature*	0°C to 50°C		
Operating	Operating humidity	20 to 85% RH (no condensation)		
environment	Storage temperature*	-20°C TO +60°C (paper not included)		
	Storage humidity	5 to 90% RH (no condensation)		
	Head temperature	Detected by thermistor		
Detection	detection			
Detection function	Paper out /mark	Detected by photo-interuptor		
TUNCTION	detection			
	Platen release	Detected by sliding switch		
		High Sensitive Paper	TF50KS-E4 (Nippon paper)	
		Standard Paper	TF60KS (Nippon paper),	
Recommended thermal sensitive paper			FTP-020PU001 (58mm),	
			PD105R (Oji paper),	
			FTP-020P0701 (58mm)	
		Medium Life Paper	TF60KS-F1, FTP-020P0102	
			(58mm), PD170R (Oji paper),	
			P220VBB-1 (Mitsubishi paper)	
		Long Life Paper	PD160R-N (Oji paper), AFB-235	
			(Mitsubishi paper), TP50KJ-	
			R (Nippon paper), HA220AA	
			(Nippon paper)	

*+5°C to +40°C printing density assurance rance.

■ FUNCTION OF INTERFACE BOARD

	Item		Item
1.	Test print function	8.	Cutter trouble detect
2.	Paper out detection	9.	Motor power saving function
3.	Paper near end detection	10.	Mark detection function
4.	Platen open detection	11.	MCU operation abnormality detection
5.	Thermal head temperature abnormality detection	12.	Power ON/OFF sequence protection
6.	Blow-out fuse detection	13.	Motor over-current protection
7.	Head voltage abnormality detection	14.	Hardware timer

■ INTERFACE, COMMAND, OPTIONS



Connectors on Control Board

	Name	Functions	Remarks	Note
CN1	+24V power supply connector	Connection for +24V power supply		
CN2	RS-232C connector	Connection for serial interface		*2
CN3	USB I/F connector	Connection for USB interface		*2
CN4	-	-		
CN5	Cutter connector	Connection for paper cutter		
CN6	Operation panel connector	Connection for operation panel		*1
CN7	Near end sensor connector	Connection for near end switch		
CN8	-	-		
CN9	Logic power connector	Connection for +5V power Supply		*1
CN10	Head/motor connector	Connection for thermal head & paper feed motor	2-inch, 24 pin	

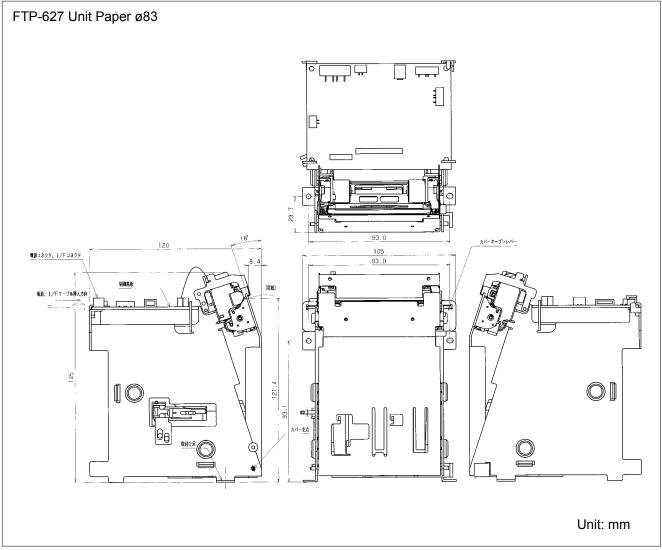
Note: *1: Option

*2: Depends on P/N

FTP-627USL431/631

DIMENSIONS

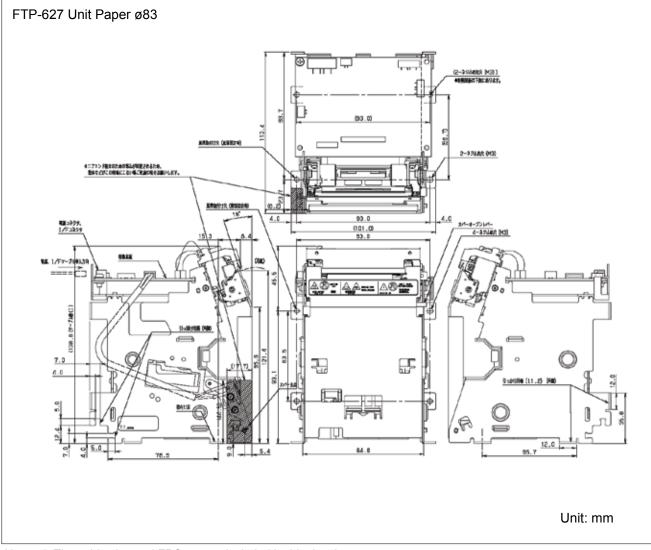
1. FTP-627USL431/435/631/635



- Note:1. The cable size and FPC are not included in this drawing.2. Do not mount anything in the shaded area except the printer.
 - 3. Connect to the body with 2 screws at 2 hooks.

DIMENSIONS

1. FTP-627USL432/436/440/632/636/640



Note: 1. The cable size and FPC are not included in this drawing.

2. Do not mount anything in the shaded area except the printer.

3. Connect to the body with 2 screws at 2 hooks.

■ COMMANDS

Command	Contents
HT	Moves print position to the next tab.
LF	Line feed.
FF	Feeds forms (new page).
ESC FF	Data printing in page printing mode.
ECS RS	Sets reverse printing.
ESC US	Resets reverse printing.
ESC SP+n	Character spacing setting.
ESC ! + n	Sets print mode.
ESC \$+n1+n2	Absolute position spacing.
ESC % + n	External registration character specification/cancellation.
ESC & +y+c1+c2+x+d1to dn	External registration character definition.
ESC *+m+n1+n2+d1+dN	Sets bit image mode.
ESC - +n	Undeline setting.
ESC 2	Sets 1/6 inch line feed length.
ESC 3+n	Sets the line feed length.
ESC ? + n	External registration character deletion.
ESC @	Printer initialization.
ESC A+n	Sets the space between the line.
ESC C+n	Sets the page length by character line.
ESC D+d1+dN +NUL	Sets the tab position.
ESC E+n	Highlighted printing specification/cancellation.
ESC J+n	Feeds paper in forward direction and prints.
ESC K+n	Print and reverse direction paper feed.
ESC L	Page printing mode selection.
ESC Q+n+!+j	Frame overlay function.
ESC R+n	Selects international character.
ESC S	Line printing mode.
ESC T+n	Print direction setting (only page mode).
ESC V+n	Right Rotation 90° specification / cancellation.

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Commands continued

ESC W+X1+X2+14/Y2+XX1+X2+X2+X1+4/X2Page printing mode printing area setting.ESC X+m+nSetting the turning time of the motor excitation.ESC X+011+ESC+x+a+m+d-Program download.ESC Y+011+n2Relative position setting.ESC a+nPositional alignment.ESC c+1+nSets internal processing.ESC c+5+nPanel switch enable/disable setting.ESC c+5+nPiniting and n-line feeding.ESC c+5+nPiniting and n-line feeding.ESC a+nPiniting and n-line feeding.ESC a+nPiniting speed.ESC a+nPiniting speed.ESC a+nSets printing speed.ESC a+nSets printing speed.ESC a+nSets/resets upside down printing.ESC a+nSets/resets upside down printing.ESC a+nSets/resets upside down printing.ESC a+nKanji printing mode collective specification.ESC a+nSets/resets upside down printing.ESC b+nKanji printing mode collective specification.ESC b+nKanji printing mode collective specification.FS b+nKanji printing mode cancellation.FS + nen1+n2+d1 to dnHigh speed collective image printing specified.FS + nen1+n2+d1 to dnSet he detection functions.FS + nen1+n2+d1 to dnKanji code system selection.FS + nen1+n2+d1 to dnSet he detection functions.FS + nen1+n2+d1 to dnCorrection of impressed energy.FS + nen1+n2+d1 to dnCorrection of impressed energy.FS + nen1+n2Kanji double height adn width printing specification/can	Command	Contents
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FS 9+nSets the detection functions.FS C+nKanji code system selection.FS E+nCorrection of impressed energy.FS S+n+n1+n2Kanji spacing setting.FS W+nKanji double height adn width printing specification/cancellation.FS r+n*1Parameter transmission.FS-r+nSetting return parameter	FS.	Kanji printing mode cancellation.
FS C+nKanji code system selection.FS E+nCorrection of impressed energy.FS S+n+n1+n2Kanji spacing setting.FS W+nKanji double height adn width printing specification/cancellation.FS r+n*1Parameter transmission.FS-r+nSetting return parameter	FS 2+c1+c2+d1 to dn	External character definition.
FS E+nCorrection of impressed energy.FS S+n+n1+n2Kanji spacing setting.FS W+nKanji double height adn width printing specification/cancellation.FS r+n*1Parameter transmission.FS-r+nSetting return parameter	FS 9+n	Sets the detection functions.
FS S+n+n1+n2Kanji spacing setting.FS W+nKanji double height adn width printing specification/cancellation.FS r+n*1Parameter transmission.FS-r+nSetting return parameter	FS C+n	Kanji code system selection.
FS W+n Kanji double height adn width printing specification/cancellation. FS r+n*1 Parameter transmission. FS-r+n Setting return parameter	FS E+n	Correction of impressed energy.
FS r+n*1 Parameter transmission. FS-r+n Setting return parameter	FS S+n+n1+n2	Kanji spacing setting.
FS-r+n Setting return parameter	FS W+n	Kanji double height adn width printing specification/cancellation.
	FS r+n* ¹	Parameter transmission.
GS!+n Setting character size	FS-r+n	Setting return parameter
	GS!+n	Setting character size

Commands continued

Command	Contents
GS \$ + n1 + n2	Vertical absolute position specification in page printing mode.
GS & +m + x + y1 + y2 + d1 to dn	Registered bit image definition.
GS' + m + n	Registered bit image printing.
GS *+x+y1+y2 +d1+dn	Registered bit image definition.
GS/ +m	Registered bit image printing.
GS <	Line feeds to the next mark.
GS A+m+n	Sets the line feed length after mark detection.
GS B+m	Angle setting of bar code.
GS E+n	Sets print quality.
GS H+n	HRI character printing position selection.
GS L+n1+n2	Left margin position setting.
GS M+n	Printer ID demand.
GS W + n1 + n2	Printing area width setting.
GS Y +n1 + n2	Vertical relative position specification in page printing mode (vertical direction of characters).
G a+n	Automatic notification setting status.
GS e+n+m	Sets bar code width.
GS f + n	HRI character font selection.
GS h+n	Sets bar code height.
y) GS k+m +d1to dk + NUL x) GS k+m+n+ d1 to dn	Bar code printing.
GS k+m+k1+k2+k3+k4+{[p1][d(1,1)] ~ [d(1,i)} ~ {[pi][d(i,1)]~[d(i,j)} [00]16	Print of 2Dcode (QR).
GS k+m+k1+k2+k3+k4+k5+d1~dn	Print of 2 Dcode (maxi).
GS k+m+k1+k2+k3+k4+k5+k6+d1~dn	Print of 2 Dcode (PDF417).
GS v	Notification of firmware version.
GS w+n	Sets bar code length.
GS (+c+m1, n2, m+fn+6 +d1~dn	Customize printer

*1: These commands are valid with FTP-627DSL600 series.

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