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.

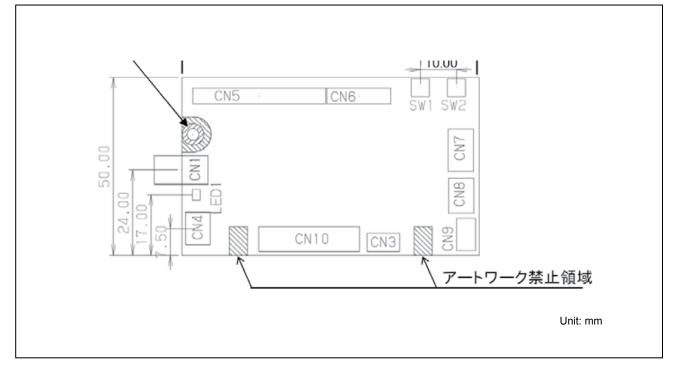
■ FUNCTIONS

| | 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

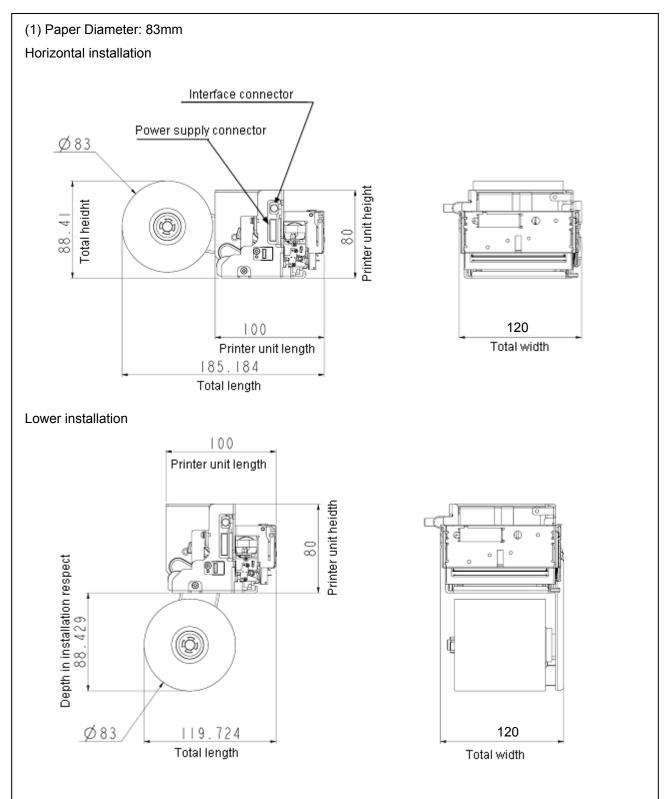
| No. | Name | Function | Remarks |
|------|---------------------------|-----------------------------------|-------------------|
| CN1 | Power connector | Connect +24V power supply | - |
| CN2 | RS-232 connector | Connect RS-232 interface | depends on models |
| CN3 | Operation panel connector | Connect 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 | - |

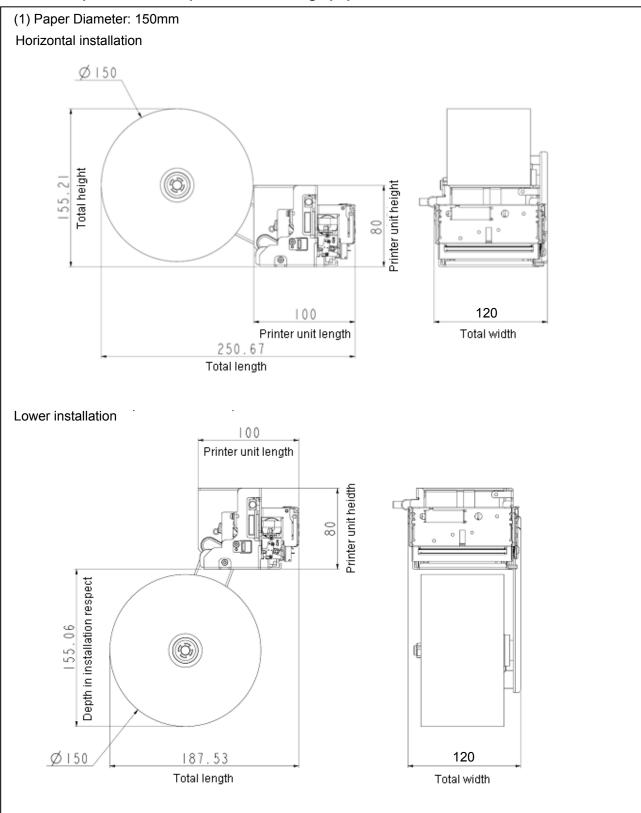
DIMENSIONS

Modular printer without presenter and standard paper roll



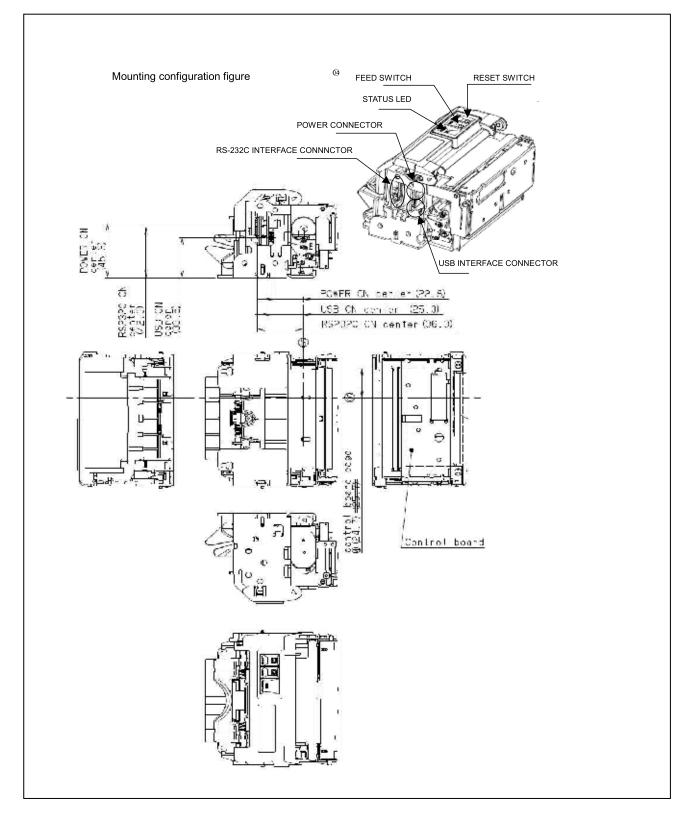
DIMENSIONS





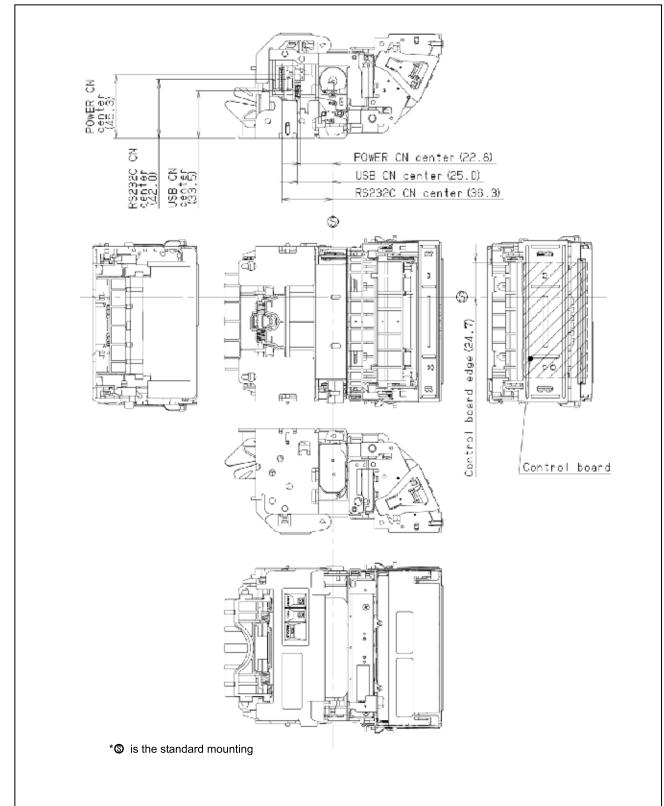
DIMENSIONS

Printer without presenter



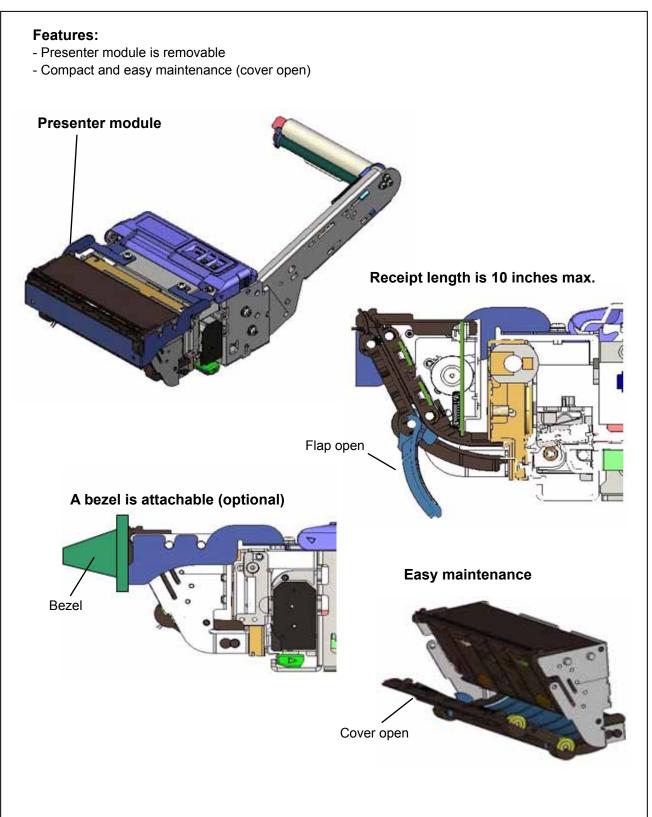
DIMENSIONS

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 K+nReverse paper feed.ESC R+nSelects international character.ESC V+nRight Rotation 90° specification / cancellationESC 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 D+d1+dN +NUL | Sets the tab position. | |
| ESC R+nSelects international character.ESC V+nRight Rotation 90° specification / cancellationESC 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 J+n | Feeds paper in forward direction and prints. | |
| ESC V+nRight Rotation 90° specification / cancellationESC 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 K+n | Reverse paper feed. | |
| 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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