

FUJITSU Component Thermal Printer FTP-63GUSL001-R series (High Speed)

Fujitsu 3" high speed (150mm/s) thermal printer unit with cutter option

Overview

The FTP-63GUSL series thermal printer (driven by 24VDC provides high speed printing (150mm/s) for 3-inch wide paper.

The series is suitable for a variety of applications, such as POS/ECR, kiosk terminals, ticket machines, banking machines, measuring devices, medical equipment, etc.

Features

- **High-speed printing**
It can print at 150mm/s (1200 dotlines/s) maximum by using Fujitsu Components' unique head drive control
- **Rear paper insertion mechanism with lock type**
Fujitsu Components' unique platen release mechanism allows straight paper path and easy head maintenance
- **Auto Cutter**
Printer with auto cutter (full cut/partial cut) is available. It can be mounted on top of the mechanism
- **Compact size**
Depth: 90mm, width: 111mm, height: 116mm
- **High resolution**
8 dots/mm head provides clear print out
- **RoHS compliant**



FTP-63GUSL001

■ Part numbers

| Item | Part Number | |
|--------------------|---|-------------|
| Printer unit | FTP-63GUSL001#01 (Japanese font types) | |
| | FTP-63GUSL001#02 (Traditional Chinese font types) | |
| Interface cable | USB | FTP-62GY301 |
| | RS-232C | FTP-62GY302 |
| Power supply cable | Logic, head, motor | FTP-62GY601 |

■ Specifications

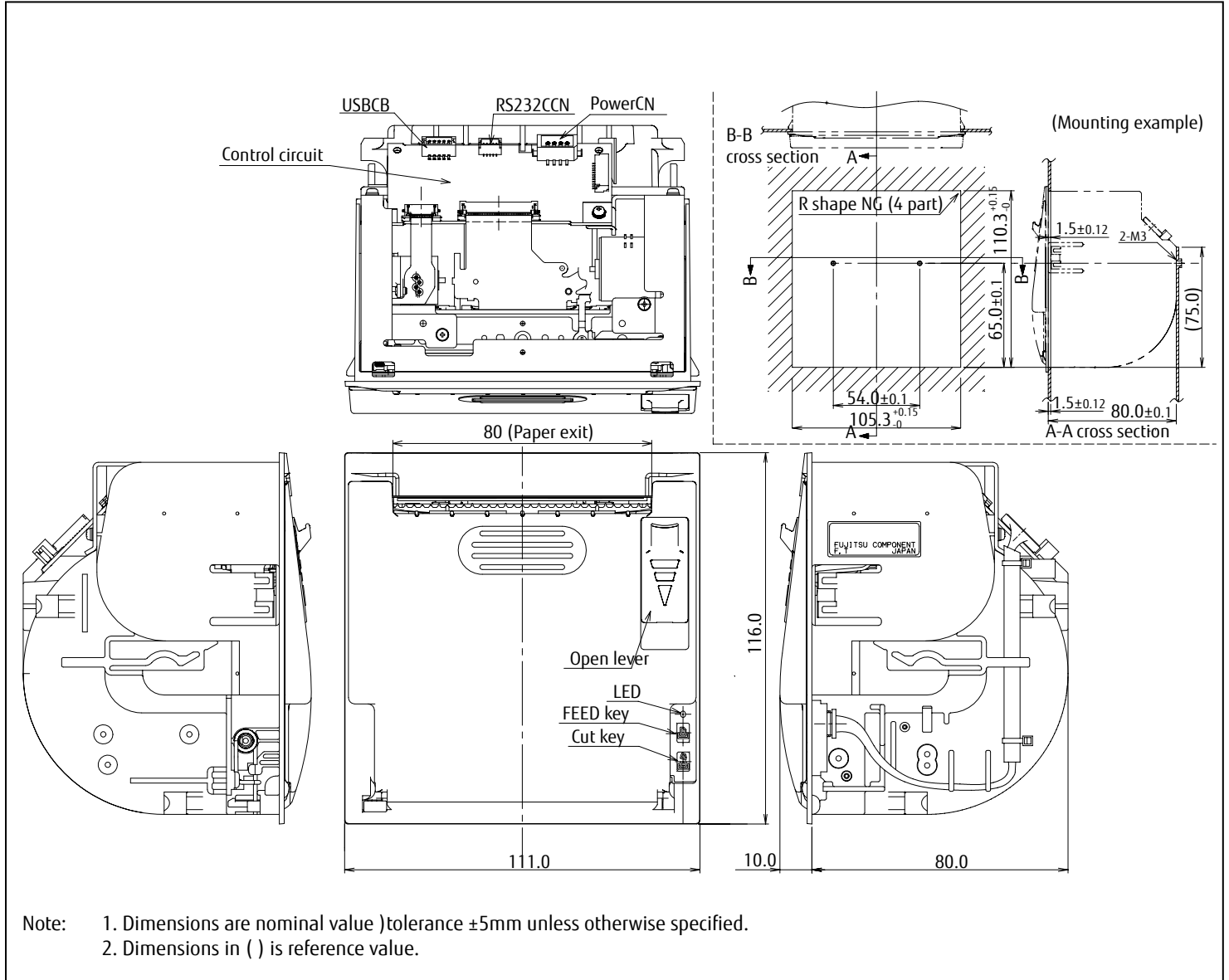
| Item | Specifications | |
|---|--|--|
| Part number | FTP-63GUSL001#01 | FTP-63GUSL001#02 |
| Printing method | Thermal sensitive line dot method | |
| Dot structure | 576 dots/lines | |
| Dot pitch (horizontal) | 0.125mm (8 dots/mm) - Dot density | |
| Dot pitch (vertical) | 0.125mm (8 dots/mm) - Line feed pitch | |
| Effective printing area | 72mm | |
| Number of columns | ANK 48 columns/line (12 x 24 x dot font) | |
| Paper width | 80mm +0/-1 | |
| Paper thickness | 60-100 μ m*1 | |
| Cutting type | Full or partial | |
| Printing speed | FTP-62GDSL 150mm/s (1200 dot lines/s) page mode | |
| Character types | Alphanumeric KANA | 159 types |
| | International and special | 195 types |
| | OCRI | 103 types |
| | OCRIII | 23 types |
| | OCRIV | 103 types |
| | Extended numeric | 12 types |
| | Thai code 18 | 128 types |
| JIS KANJI level 1, 2, non-Kanji | JIS KANJI: approx. 6800 | |
| | Traditional Chinese | 13, 503 |
| Character dimensions (W x H), number of characters (applicable for FTP-63GUSL001#01 & #02) | 8 x 16 dots, 72 columns, ANK | 24 x 40 dots, 24 columns, OCRI |
| | 12 x 24 dots, 48 columns, ANK | 24 x 48 dots, 24 columns, OCRII |
| | 16 x 16 dots, 36 columns, ANK | 36 x 60 dots, 16 columns, OCRIV |
| | 24 x 24 dots, 24 columns, ANK | 24 x 48 dots, 24 columns, extended numeric |
| Interface standard | RS-232C, USB | |

*1: there may be exceptions

| Item | | Specifications |
|-------------------------------------|-----------------------------|--|
| Part number | | FTP-63GUSL001#01 FTP-63GUSL001#02 |
| Power | | 24VDC \pm 10% 4.9A (24V, concurrent applied dot numners: 192 dots) |
| Dimensions (WxDxH) | Printer mechanism w/ cutter | 111 x 90 x 116mm (external), 105 x 80 x 110mm (internal) |
| Weight | Printer unit | 315g |
| Expected life | Head | Pulse durability: 100 million pulse/dot (using Fujitsu Components' standard driving method) Wear resistance: 100km (at 12.5% print ratio) |
| | Cutter | 500,000 cuts min. |
| Environmental conditions | Operating temperature | 0°C to +50°C (guaranteed) |
| | Operating humidity | 30 to 85% RH (no condensation) |
| | Storage temperature | -20°C to +60°C (excluding paper) |
| | Storage humidity | 5 to 95% RH (no condensation) |
| Detection functions | Head temperature | By thermistor |
| | Paper out/Mark detect | By photointerrupter |
| | Head release | By slide switch |
| Recommended thermal sensitive paper | High sensitive paper | TF50KS-E4 (Nippon paper) |
| | Standard paper | TF-60KS-E (Nippon paper) PD150R (Oji paper) |
| | Medium term paper | TF-60KS-F1 (Nippon paper) P220VBB-1 (Mitsubishi paper) |
| | Long term paper | PD160R-N (Oji paper) AFP-235 (Mitsubishi paper) TR50KJ-R (Nippon paper) HA220AA (Nippon paper) |

■ Dimensions

- Printer mechanism/cutter: 3-inch



■ Connector for power supply

- Connector for Logic, Head, Motor Power supply (CN1)

Board side: DF3-4S-2C (Hirose)

Other side: XHP-6 or equivalent

| No. | Signal | I/O | Content | No. | Signal | I/O | Content |
|-----|--------|-----|------------|-----|--------|-----|------------|
| 1 | Vp | I | +24V power | 2 | Vp | I | +24V power |
| 3 | GND | - | Ground | 4 | GND | - | Ground |

■ RS-232C standard

Connector (CN2)

Connector part number: SHR-05V-S (J.S.T.) or equivalent

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

| No. | Signal | I/O | Content | No. | Signal | I/O | Content |
|-----|-----------|-----|---------------------|-----|--------|-----|-------------------|
| 1 | RXD | I | Receive data | 2 | TXD | O | Transmission data |
| 3 | RTS (DTR) | O | Data terminal ready | 4 | GND | - | Signal ground |
| 5 | CTS (DSR) | I | Data set ready | | | | |

Note: Symbol "-" means a negative logic signal.
 "I" or "O" means a signal direction from the interface board side.

■ USB standard

- (1) Connector (CN4)

Connector part number: ZHR-5 (J.S.T.) or equivalent

Mating connector part number: (Molex). or equivalent

| No. | Signal | I/O | Content | No. | Signal | I/O | Content |
|-----|--------|-----|-----------------------------------|-----|--------|-----|-----------------------------------|
| 1 | Vbus | I | Bus power supply | 2 | D- | I/O | Differential data I/O D- terminal |
| 3 | D+ | I/O | Differential data I/O D+ terminal | 4 | GND | - | Signal ground |
| 5 | FG | - | Frame ground | | | | |

Note: Symbol "-" means a negative logic signal.
 "I" or "O" means a signal direction from the interface board side.

■ Commands

| Command | Content |
|--------------------------|--|
| HT | Moves print position |
| LH | Line feed |
| FF | Feeds forms (new page) |
| ESC EM+n | Setting the amount of feeding at automatic paper feed |
| ESC RS | Sets reverse printing |
| ESC SP+n | Right side character spacing |
| ESC US | Resets reverse printing |
| ESC !+n | Sets print mode |
| ESC %+n | External registration character specification/cancellation |
| ESC &+y+c1+c2+x+d1 to dn | External registration character definition |
| ESC *+m+n1+n2+d1+dk | Set 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 | Set the space between the line |
| ESC G+n | Sets the page length by character line |
| ESC D+n1+nk+NUL | Set the tab position |
| ESC J+n | Feeds paper in forward direction and prints |
| ESC K+n | Reverse paper feed |
| ESC R+n | Selects international character |
| ESC V+n | Right rotation 90° specification/cancellation |
| ESC X+n+m | Setting the turning time of the motor excitation |
| ESC c+1+n | Sets internal processing |
| ESC c+5+n | Panel switch valid/invalid setting |
| ESC d+n | Printing and n-line feeding |
| ESC e+n | Prints and reverses feeds n-line |
| ESC j | Full cut |
| ESC m | Partial cut |
| ESC s+n | Sets printing speed |
| ESC t+n | Character code table selection |
| ESC {+n | Sets/resets upside down printing |
| ESC DEL +n | Flash memory erase |
| FS !+n | Kanji printing mode collective specification |
| FS & | Kanji printing mode specification |
| FS *+m+n1+n2+d1 to dk | High speed collective image printing specified |
| FS -+n | Kanji underline specification/cancellation |
| FS . | Kanji printing mode cancellation |
| FS 2+c1+c2+d1 to dn | External character definition |
| FS 9+n | Sets the detection functions |

■ Commands

| Command | Content |
|--|--|
| FS C+n | Kanji code system selection |
| FS E+n | Correction of impressed energy |
| FS S+n1+n2 | Kanji spacing setting |
| FS W+n | Kanji double height and width printing specification/cancellation |
| FS r+n | Parameter transmission (serial mode) |
| GS !+n | Character size setting |
| GS &+m+x+y1+y2+d1 to dn | Registered bit image definition |
| GS '+m+n | Registered bit image printing |
| GS (+E+L1+L2+fn+d1 to d9 | RS-232C communication setting |
| 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 setting |
| GS V+m+n | Paper cutting (this command is only available for chip) |
| GS W+n1+n2 | Setting and cancellation of auto status transmission (serial mode) |
| GS a+n | HRI character font selection |
| GS e+m+n | Sets bar code height |
| GS h+n | Barcode height setting |
| GS k+m+n+d1~dn | Selects bar code type and prints |
| GS k+m+k1+k2+k3+k4+{{[p1][d(1, 1)] to [d(1, j)]} to {[pi][d(i, 1)] to [d(i, j)]}[00] | 2D code (QR code) print |
| GS k+m+n+k+pL+pH+d1 to dp | Bar code (GS1 DataBar) print |
| GS k+m+n+k1+k2+k3+k4 | Bar code (GS1 DataBar) setting |
| GS w+n | Sets bar code width magnification |

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