

# 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

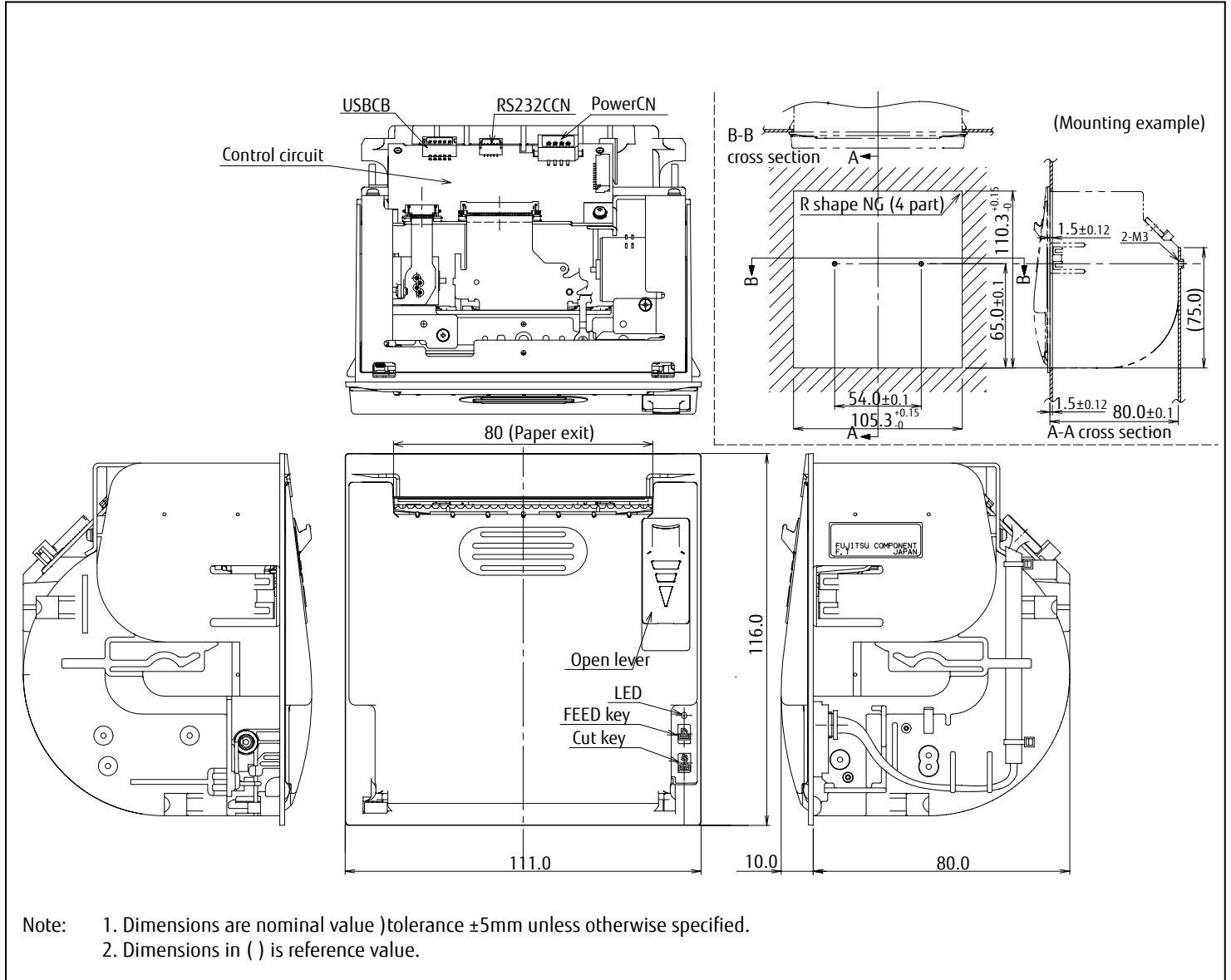
| Item  | Specifications                                     |  |
|---|--|--|
| Part number   | FTP-63GUSL001#01                                   | FTP-63GUSL001#02                           |
| Printing method   | Thermal sensitive line dot method                  |  |
| Dot structure   | 576 dots/lines                                     |  |
| 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 $\mu$ m*1                                   |  |
| Cutting type  | Full or partial                                    |  |
| Printing speed  | FTP-62GDSL<br>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<br>(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



■ 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                                  |

## Contact

### Japan

FUJITSU COMPONENT LIMITED  
Shinagawa Seaside Park Tower  
12-4, Higashi-shinagawa 4-chome,  
Tokyo 140 0002, Japan  
Tel: (81-3) 3450-1681  
Fax: (81-3) 3474-2385  
Email: fcl-contact@cs.jp.fujitsu.com  
Web: www.fcl.fujitsu.com

### North and South America

FUJITSU COMPONENTS AMERICA, INC.  
2290 North First Street, Suite 212  
San Jose, CA 95131 U.S.A.  
Tel: (1-408) 745-4900  
Fax: (1-408) 745-4970  
Email: components@us.fujitsu.com  
Web: http://us.fujitsu.com/components/

### Europe

FUJITSU COMPONENTS EUROPE B.V.  
Diamantlaan 25  
2132 WV Hoofddorp  
Netherlands  
Tel: (31-23) 5560910  
Fax: (31-23) 5560950  
Email: info@fceu.fujitsu.com  
Web: emea.fujitsu.com/components/

### Asia Pacific

FUJITSU COMPONENTS ASIA, Ltd.  
102E Pasir Panjang Road  
#01-01 Citilink Warehouse Complex,  
Singapore 118529  
Tel: (65) 6375-8560 / Fax: (65) 6273-3021  
Email: fcal@fcal.fujitsu.com  
www.fujitsu.com/sg/services/micro/components

### China

FUJITSU ELECTRONIC COMPONENTS  
(SHANGHAI) CO., LTD.  
Unit 4306, InterContinental Center  
100 Yu Tong Road, Shanghai 200070, China  
Tel: (86 21) 3253 0998  
Fax: (86 21) 3253 0997  
Email: fcal@fcal.fujitsu.com  
www.fujitsu.com/sg/services/micro/components

### Hong Kong

FUJITSU COMPONENTS HONG KONG Co., Ltd.  
Unit 503, Inter-Continental Plaza,  
No.94 Granville Road,  
Tsim Sha Tsui Kowloon, Hong Kong 118529  
Tel: (852) 2881 8495 Fax: (852) 2894 9512  
Email: fcal@fcal.fujitsu.com  
www.fujitsu.com/sg/services/micro/components

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#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.