

BATTERY DRIVE, MOBILE TYPE COMPACT STANDALONE THERMAL PRINTER 2" EASY LOADING MODEL

FTP-628WSL110/120

OVERVIEW

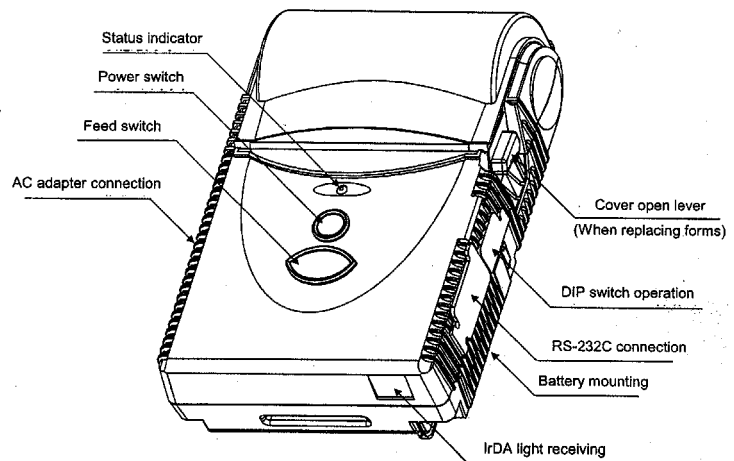
The supply voltage of the FTP-628WSL Series is 120VAC (via AC adaptor) or battery. The unit uses 2 inch wide paper. The mechanism and interface board is a standard multiple purpose unit.

The semi-rugged printer unit is most suitable for applications such as handheld, mobile and portable devices, as well as for various other equipment.



FEATURES

- Lightweight and ultra small size
- Easy paper loading
- Bluetooth®, infrared and serial interfaces
- 3.7V Lithion battery, 120 or 240 VAC adapter
- Drop-resistant - 1.5 meters
- Water resistant
- Prints 2-D barcodes
- 3 hour charge cycle
- Up to 6 paper rolls / charge
- Thin label capability
- RoHS compliant
- IP54 compliant
- Windows®2000/XP, Linux drivers



INTERFACE SPECIFICATION AT HOST SIDE

| Item | Specifications |
|-------------------------|--|
| Bluetooth V2.0 Class 2 | Profile: GAPSDP, SPP. Modulation: FHSS/GFSK Data speed: 460 kbps Maximum distance: 10m Protocol stack: IrLAP, IrLMP, IrLAS, TinyTP, IrCoMM |
| RS-232C | Data speed: 115,200, 19,200 / 9,600 / 4,800 kbps Synchronous method: Full duplex Handshake: DTR/DSR, XON/XOFF control Input/output level: RS-232C |
| IrDA (Ver. 1.2, IrCoMM) | Data speed: 115,200 / 57,600 / 38,400 / 19,200 / 9,600 kbps |

FTP-628WSL110 /120 Series

■ PART NUMBER

| Item | Part Number |
|--|--|
| Bluetooth , IrDA and serial interfaces | FTP-628WSL110#10 (includes 120V AC adapter, battery, belt clip and paper roll) |
| | FTP-628WSL110#20 (includes 120/240V AC adapter, battery, belt clip and paper roll) |
| IrDA and serial (RS-232C) interfaces | FTP-628WSL120#10 (includes 120V AC adapter, battery, belt clip and paper roll) |
| | FTP-628WSL120#20 (includes 120/240V AC adapter, battery, belt clip and paper roll) |
| Serial interface cable | FTP-628Y303 |

■ SPECIFICATIONS

| Item | | Specification |
|---|-----------------------|---|
| Part Number | | FTP-628WSL110 / 120 |
| Dot structure | | 384 dots / line |
| Dot pitch (horizontal) | | 0.125 mm |
| Dot pitch (vertical) | | 0.125 mm |
| Effective print area | | 48 mm |
| Paper width/diameter | | 58mm / ID 8mm, OD 36mm max. |
| Paper thickness | | 60 to 100 μ m*1 |
| Maximum printing speed | | Maximum 40mm/sec. (320 dotline/s) at 12.5% print ratio |
| Character types | | Alphanumeric KANA: 159 International characters: 195 Registered characters: 224 JIS KANJI: approx. 6800 |
| Character dimensions (WxH mm), number of characters | | 12 x 24 dots (1.5 x 3.0mm), 32 columns 24 x 24 dots (3.0 x 3.0mm), 16 columns 8 x 16 dots (1.0 x 2.0mm), 48 columns 16 x 16 dots (2.0 x 2.0mm), 24 columns |
| Power | Battery (Lithium Ion) | 3.7VDC lithium 1,800mAh |
| | AC Adapter | 100VAC to 120VAC adapter #10 100VAC to 240VAC adapter #20 (AC cable not included) |
| Power consumption | | 1.6-1.7A Printing (print ratio 12.5%) standby 30-60mA communication 90-170mA |
| Dimensions (W X D X H) | | 84 x 136.5 x 30.0 mm body / 43.6mm paper holder |
| Weight | | 280 g (battery and belt clip included) |
| Expected Life | Head | Pulse durability: 100 million pulse/dot (25% print ratio) Wear resistance: 50Km |
| | Battery | One charge: 100m (at 12.5% printing ratio), 300 charge cycles |
| | Paper Holder | 5000 times open / close |
| MTBF | Mechanism | 3,000 hours |
| | Interface Board | 500,000 hours |

FTP-628WSL110 /120 Series

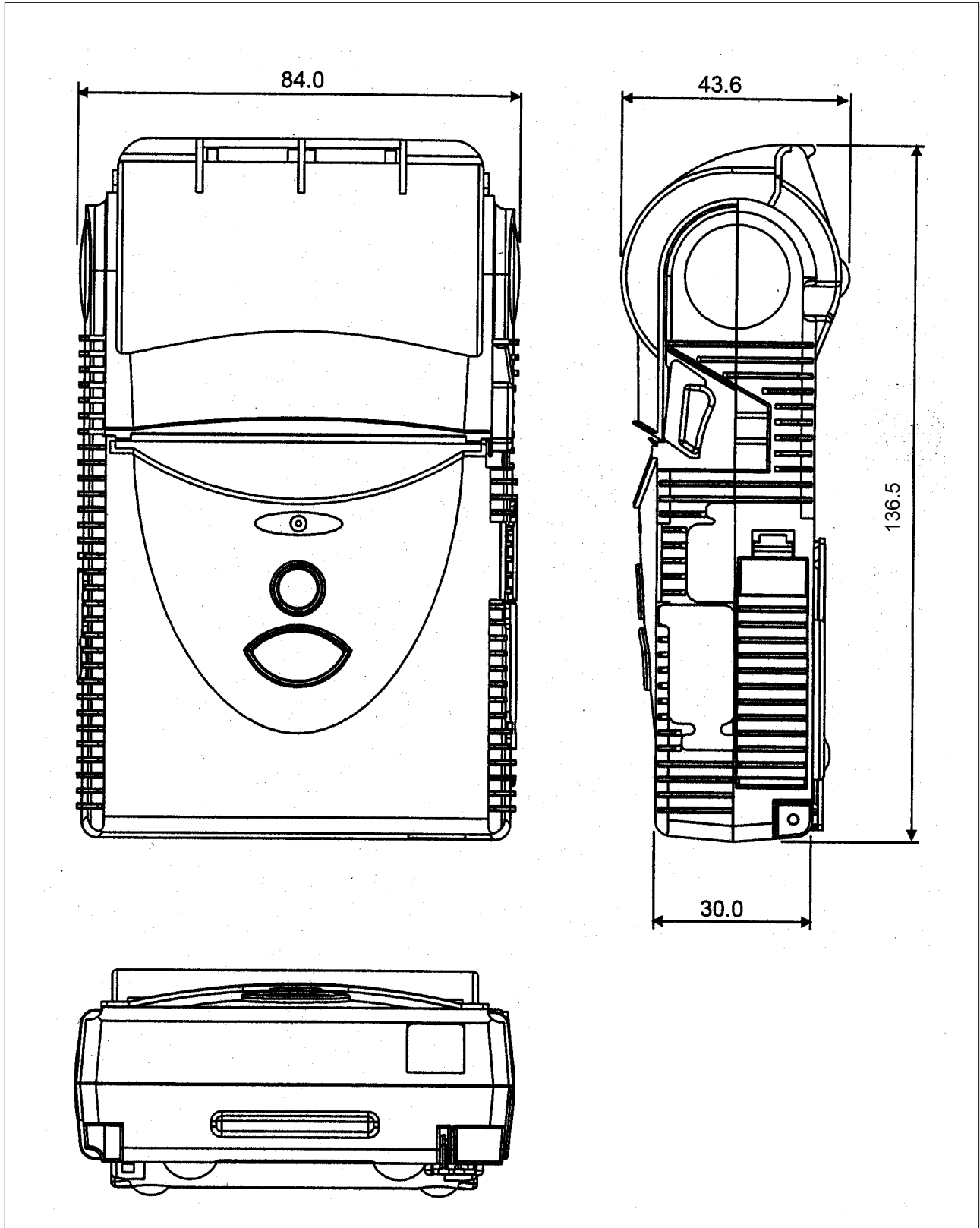
FTP-628WSL110/120 Specs continued

| Item | | Specification |
|--------------------------------------|-----------------------|--|
| Bar Code Type | Standard | UPC-A, UPC-E, JAN13, JAN8, CODE 39, ITF, CODABAR, CODE 128 |
| | 2-D | MAXI, PDF417, QR |
| Interface | Serial | RS-232C |
| | IrDA | Version 1.2 (Ir COMM protocol) |
| | Bluetooth*3 | Version 2.0 (Class 2) |
| Safety Standard | Noise | FCC Class B, FCC Part 15 |
| | Water resistant | JIS C0920 Class 2 |
| Environmental conditions | Operating temperature | 0°C to +50°C*4 |
| | Operating humidity | 30 to 85% RH (no condensation) |
| | Storage temperature | -20°C to +60°C |
| | Storage humidity | 5 to 90% RH (no condensation) |
| Detection functions | Head temperature | Detected by thermistor |
| | Mark detect | Detected by photo-interruptor |
| | Paper out | Detected by photo-interruptor |
| | Cover open | Detected by micro-switch |
| Major Functions | | Page mode Registration of character and image Enlarge characters Auto status reply |
| Recommended thermal sensitive papers | High sensitive paper | TF50KS-E4 (Nippon paper) |
| | Standard Paper | FTP-020P0704 TF-60KS-E (Nippon paper), PD150R (Oji paper) |
| | Medium term paper | TF-60KS-F1 (Nippon paper), PD170R (Oji paper), P220VBB-1 (Mitsubishi paper), FH65BC-3H (Oji Film) |
| | Long term paper | PD160R-N (Oji paper), AFP-235 (Mitsubishi) |
| | Label paper | HW54T (Nippon paper) |

Notes: *1: There may be exceptions
*2: ESC/POS™ Seiko/Epson trademark
*3: FTP-628WSL110 only
*4: 0 to +40°C guarantee of print quality

FTP-628WSL110 /120 Series

■ DIMENSIONS



FTP-628WSL110 /120 Series

■ COMMANDS

| Command | Contents |
|---|---|
| HT | Horizontal tab. |
| LF | Line feed with printing. |
| FF | Feeds forms (new page). |
| ECS RS | Sets reverse printing. |
| ESC US | Resets reverse printing. |
| ESC FF | Data printing in page print mode. |
| ESC ! + n | Sets print mode. |
| ESC % + n | External registration character specification / cancellation. |
| ESC & + y + c1 + c2 + x + d1 ~ dn | External registration character definition. |
| ESC * + m + n1 + n2 + [d1 ~ dn] | Bit image mode registration |
| ESC 3 + n | Sets the line feed length. |
| ESC ? + n | External registration character deletion. |
| ESC @ | Printer initialization. |
| ESC A + n | Sets the space between lines. |
| ESC C + n | Sets the page length by character line. |
| ESC D + n | Sets the tab position. |
| ESC J + n | Feeds paper in forward direction and prints. |
| ESC K + n | Reverse paper feed. |
| ESC L | Page print mode selection. |
| ESC R + n | Selects international character. |
| ESC S | Line print mode selection. |
| ESC V + n | Right Rotation 90° specification / cancellation. |
| ESC W + x1 + x2 + y1 + y2 + Dx1 + dx2 + dy1 + dy2 | Print area setting in page print mode. |
| ESC X + m + n | Sleep mode time setting. |
| ESC c + 1 + n | Sets internal processing. |
| ESC s + n | Print speed setting. |
| ESC { + n | Sets/resets upside down printing. |
| ESC Y SOH x a DLE + n | RS-232C communication setting. |
| FS ! + n | Kanji printing mode collective specification. |
| FS & | Kanji printing mode specification. |

FTP-628WSL110 /120 Series

Commands continued

| Command | Contents |
|--------------------------|--|
| FS . | Kanji printing mode cancellation. |
| FS 9+n | Sets the detection functions. |
| FS C+n | Kanji code system selection. |
| FS E+n | Correction of impressed energy. |
| FS r+n | Parameter transmission (valid for non-protocol mode). |
| GS \$+n+1+2 | Vertical absolute position specification in page print mode. |
| GS &+m+x+y1+y2+[d]k | Registration of image data. |
| GS '+m+n | Prints registered image data. |
| GS < | Line feeds to the next mark. |
| GS A+m+n | Sets the line feed length after mark detection. |
| GS B+n | Bar code angle setting. |
| GS E+n | Print quality setting. |
| GS a+n | Setting and cancelation of status transmission. (non-protocol mode). |
| GS e+n+m | Bar code width setting. |
| GS h+n | Bar code height setting. |
| GS k+m+n+d1~dN | Bar code printing. |
| GS k+m+k1+k2+k3+k4+d1~dn | Two dimensional code printing. |
| GS (A ETX +n | Bluetooth link time setting. |
| GS (A ACK +m+n | Bluetooth security mode setting. |
| GS (A BS +n+d1 to dn | Bluetooth PIN code setting. |
| GS (A HT +n+d1 to dn | Bluetooth device name setting |
| GS (A ENQ | Bluetooth, information printing (WSL110 only). |

FTP-628WSL110 /120 Series

Fujitsu Components International Headquarter Offices

Japan

Fujitsu Component Limited
Gotanda-Chuo Building
3-5, Higashigotanda 2-chome, Shinagawa-ku
Tokyo 141 8630, Japan
Tel: (81-3) 5449-7010
Fax: (81-3) 5449-2626
Email: promothq@fcl.fujitsu.com
Web: www.fcl.fujitsu.com

North and South America

Fujitsu Components America, Inc.
250 E. Caribbean Drive
Sunnyvale, CA 94089 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
Web: <http://www.fujitsu.com/sg/services/micro/components/>

©2009 Fujitsu Components America, Inc. All rights reserved. All trademarks or registered trademarks are the property of their respective owners.

Fujitsu Components America or its affiliates do not warrant that the content of datasheet is error free. In a continuing effort to improve our products Fujitsu Components America, Inc. or its affiliates reserve the right to change specifications/datasheets without prior notice.
Rev. February 26, 2009.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

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