

Portable Wireless Printer

FTP-628WSL100 Series

FTP-628WSL100 is a portable standalone printer with an infrared (IrDA) interface, designed to work with two-dimensional bar codes.

The device is best suited for logistics systems, inventory control systems, and other such applications requiring portable printers.

Product Description

With the widespread use of PDAs (Personal Digital Assistants) in recent years, device makers are shifting their attention from the existing all-in-one type of mobile information devices (handheld terminals) to PDAs that can coordinate with PCs and operated under the control of commercially available applications. Most mobile information terminals nowadays use IrDA and micro-power wireless technologies for their device interface, though there is increasing demand recently for wireless LAN and Bluetooth™.

To meet the latest needs of the market, FUJITSU has just developed and marketed a highly portable printer featuring a drip-proof design and high impact resistance (no failure after drops from heights of up to 1.5 meters). The standard model is furnished with the IrDA and RS-232C interfaces, and can be worn on a belt or neck strap. Its ability to work with a variety of bar coding systems—including QR, MAXI, and PDF417—makes it best suited for logistics, inventory control, and other applications requiring portable printers.

Product Features

■ Easy paper loading

An easy paper loading system is adopted to facilitate the exchange of different types of printing paper, clearing of paper jams, and cleaning of the printing head.

■ High-speed printing

The device prints out 7% faster than the next fastest model in its class—about 40mm/sec while running on a single Li-ion battery.

■ Compatible with two-dimensional bar codes (QR, MAXI, PDF417)

The industry standard two-dimensional bar coding capability is preinstalled, making the printer ideal for logistics and inventory control applications.

■ Indicating function-rich

The LED visibility is improved under direct sunlight, allowing detailed representations by three-colored LEDs.

Photo 1 External View



■ Equipped with IrDA/RS-232C interfaces as standard

IrDA and RS-232C interfaces are incorporated as standard for the handling of mobile and embedded applications. The 115.2 kbps maximum transmission rate supports half-duplex asynchronous packet transmission and full-duplex free transmission.

■ Operates on either a single cell Li-ion battery or via an AC adapter

The device prints out at a rapid rate of 40mm/sec while running on a single cell Li-ion battery. FUJITSU's proprietary power-saving design has also extended the battery life to about 2.5 times that of similar models, enabling the device to print out 50 meters of paper without interruption (at a printing ratio of 12.5% at +25°C, with a fresh, fully charged battery). AC adapter operation is available for desktop application.

■ Low-profile, lightweight design with high impact resistance

The printer weighs only 225g, with the battery installed. The device also has the highest impact resistance in the industry, thanks to the incorporation of FUJITSU's proprietary battery cover and roll-paper cover locking mechanism (no device failure after drops from heights of up to 1.5m). It stands only 30mm in height, making it about 14% smaller than similar models (without the roll paper

section installed).

■ JIS C0920 compliance (Drip-proof II type)

This printer is fully drip-proof, allowing use even in rainy weather.

Table 1 lists the principal specifications and benchmark, and **Fig. 1** shows the device dimensions.

Future Development

FUJITSU plans to offer a lineup of Bluetooth interfaced portable printers for commercialization of the low-profile design IrDA type (single cell battery operation) and high-speed printing Bluetooth type (2-cell battery operation with IrDA interface preinstalled). ★

NOTES

* Bluetooth is a trademark of Bluetooth SIG Inc.

Table 1 Principal Specifications and Benchmark

Model		FTP-628WSL100	Other company's model
Printing method		Direct thermal printing	
Resolution		8 lines/mm	
Dots/printing width		384 dots/48mm	
Paper	Width	58mm	
	Diameter	φ 36mm	φ 30mm
Printing speed		Max. 40mm/sec	Max. 37.5mm/sec.
Interface		IrDA, RS-232C	IrDA, RS-232C
Bar code type		UPC-A, UPC-E, JAN13, JAN8, CODE39, ITF, CODABAR, CODE128, QR, Maxi, PDF417	UPC-A, UPC-E, JAN13, JAN8, CODE39, ITF, CODABAR, CODE128
Size (W×D×H)		84mm×134.5mm×30mm (Paper holder section : 43.6mm)	78mm×108mm×35mm
Weight		225 g (including battery), 280 g (including battery and paper)	215 g (including battery)
Power supply		Li-ion battery×1 cell, AC adapter	AA battery × 4 (alkaline, NiMH, etc.)
Battery life		Printing ratio: 12.5%, +25°C, Continuous 50m (equivalent to 13,000 lines)	Continuous 5,000 lines
Extensibility		Integrated Bluetooth interface (Custom-built), etc.	—

Figure 1 Dimensions