

Ultra Lightweight Portable Receipt Printer with Wireless Connectivity

Advantages

- Contemporary, Rugged Portable Receipt Printer
- Wireless Connectivity for Personal Area Networks
- Uniquely Designed IrDA Communication System
- Optional Integrated Bluetooth™
- New Easy Loading Paper System
- "Easy to wear all day long!"
- Weighs one pound
- New Lithium Ion Battery for More Receipts per Charge
- Faster Printing — Reduces Print Time per Receipt
- State-of-the-Art Integrated Micro-Processor
- Flash Memory — Add Logos, Bar Codes and other Graphic Elements
- Optional built-in 3-track MCR
- Full 12 Month Warranty includes Print Head



S2500THS New Design Details

Highly integrated Microcontroller by ST-Microelectronics

- Flash based Integrated CPU contains firmware, resident fonts, rotated fonts, downloadable fonts, graphics, logos, and bar codes
- Incorporates Flash and SRAM memory
- Manages all the features supported by the printer

Low power precision regulator circuits

- 8 bit 2 channel A/D circuit to measure system and printer mechanism voltage levels, battery and thermal print head temperature
- Fail safe and CPU watchdog circuits

SEIKO thermal print head (2" per second at 7.2V)

- Easy Load Clamshell style paper load system with push button release for paper door
- Automatic thermal print contrast control (voltage and temperature dependent)
- High speed, high resolution print
- Built-in detectors to monitor voltage and paper-out.

Fast charge circuit with auto switch to trickle charge

- Power adapter option, auto switch to AC power when adapter is used
- Hardware and software power management.
- New extra capacity rechargeable Lithium Ion battery cartridge (1850 mA/h)

Ease of Integration:

- Multiple Communication Interfaces
- MS-DOS and Windows compatible with full-speed handshake
- Print Drivers available for Windows 95, 98, 2000, XP
- Print Utilities available for all CE and Palm based operating systems

Special Features:

- Resident fonts to enable printing from 12 to 24 characters per inch
- Protective over-molds
- Printer is in-field programmable for firmware, font and logo setup

Print Mechanism:

Printing Method:	Thermal dot line printing
Dots per line:	384
Number of heat elements:	2 heater/dot, 142 ohms/dot
Printing Width:	48 mm
Resolution:	8 dots/mm
Paper feed pitch:	0.125mm
Printing speed:	50 mm/sec linear @ 7.2 Volts
Head Temperature detection:	By thermistor with hardware protection against overheating
Paper-out/TOF detection:	By photo interrupter
Operating Voltage:	5V
Current Consumption:	3.8A @ 64 dots
Reliability:	50 million MCTF (mean characters until fail)@25% pulse

Standard Operating Features:

Character set:	ASCII International and IBM graphic set a plus downloadable option. All font tables are in-field downloadable.
Graphic print:	Bit addressable graphic command set Graphic logo store and print. Black Mark Sensing.
Bar code:	Codes 39,128, 2 of 5, UPC-A, UPC-E, UPC/EAN-8, UPC/EAN-13, Codabar.
Supervised operation:	Supervisory command set to read battery voltage, Print head temperature, buffer status, power management and Firmware version.
Line Buffering:	32K standard
Characters per line:	24, 32, 38, 40, 42, 48 (s/w command)
Character Size:	3x2 3x1.5 3x1.15 3x1 (HxW mm)
Print contrast:	Auto and user selectable
Print output:	Double high, double wide and bold print

Communication:

Interface:	RS232C and IrDA standard; Bluetooth option:
Baud Rate:	2400, 9600, 19,200, 38,400 baud, dip switch select
Fast IrDA Transfer Speed:	Up to 38.4K depending on computer capability
Std. IrDA Transfer Speed:	9600 connect and transfer
Handshaking:	CTS/RTS and/or XON/XOFF

Print Media:

Paper Width:	57mm (2.25 inches)
Lines of Print/roll:	5200 (1.5" diameter roll, 0.4" core, approx. 60 feet long)
Paper Rolls per Charge:	~ 6
Lines per Charge:	~ 30,000 (4" receipt followed by 60 second delay then repeat)

Power:

Power supply:	Internal rechargeable battery with wall mount DC power pack
Battery:	2 cell Lithium Ion, 1850 m/Ah
DC Power Pack:	10V/1.4 A DC/AC UL listed adapter standard.
Battery Recharge:	Internal Fast 180 min fast charge with auto switch to trickle charge; Over-voltage, Over-current and over-heat protection
Power ON/OFF:	Power ON/OFF switch, or by raising RTS input; or sending a single character through serial input. Auto power down timer, can be set or disabled through user application.

User Interface:

Status indicators:	3 LEDs (2 are multi functioning) - Power/ERROR, Charging, Ready/Fault
User switches:	2 switches – On/Off, Feed
Connection:	RJ type (6 pin) for Data I/O; DC input Power Jack for wall mount adapter; Infra-Red (IrDA) with Ambient Light Filter Integrated Bluetooth radio module (optional) Integrated magnetic card reader (optional)
Dimensions:	107x138x68mm (4.2x5.4x2.7") WxLxH including over-mold
Weight:	465g (16oz) with paper and battery pack
Warranty:	One year standard (3 years available at extra charge)
OEM Products:	Design services available

Environmental Specifications:

Operating Temperature:	-10° to 50°C
Storage Temperature:	-20° to 60°C
Humidity:	Up to 90% RH (non-condensing)
Agency approvals:	FCC: Part 15 Subpart B, Class B; EN55022 Class B; EN50024; EN61000-3-2; EN61000-3-3 ; AS/NZS3548 Class B

Ordering Information

7832811	S2500THS with RS-232 and 38.4K IrDA Interface (US Style Adapter) (change last digit to 2 for Euro style 220V and 4 for 240V UK style adapter versions)
[]	add R for 3-track MCR
[]	add -1 for Bluetooth
151131	Power Adapter, 12-16 VDC input vehicle adapter
756998	Belt Loop System (included as standard)
757351	Shoulder Strap
757060	Spare paper, pkg. of 5 rolls
7A100011	Spare battery
5892RJD9	Coiled Cable (RJ to D9)