

### 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:**

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

**Standard Operating Features:**

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

**Communication:**

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

**Print Media:**

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

**Power:**

<b>Power supply:</b>	Internal rechargeable battery with wall mount DC power pack
<b>Battery:</b>	2 cell Lithium Ion, 1850 m/Ah
<b>DC Power Pack:</b>	10V/1.4 A DC/AC UL listed adapter standard.
<b>Battery Recharge:</b>	Internal Fast 180 min fast charge with auto switch to trickle charge; Over-voltage, Over-current and over-heat protection
<b>Power ON/OFF:</b>	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:**

<b>Status indicators:</b>	3 LEDs (2 are multi functioning) - Power/ERROR, Charging, Ready/Fault
<b>User switches:</b>	2 switches - On/Off, Feed
<b>Connection:</b>	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)
<b>Dimensions:</b>	107x138x68mm (4.2x5.4x2.7") WxLxH including over-mold
<b>Weight:</b>	465g (16oz) with paper and battery pack
<b>Warranty:</b>	One year standard (3 years available at extra charge)
<b>OEM Products:</b>	Design services available

**Environmental Specifications:**

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

**Ordering Information**

<b>7832811</b>	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
<b>151131</b>	Power Adapter, 12-16 VDC input vehicle adapter
<b>756998</b>	Belt Loop System (included as standard)
<b>757351</b>	Shoulder Strap
<b>757060</b>	Spare paper, pkg. of 5 rolls
<b>7A100011</b>	Spare battery
<b>5892RJD9</b>	Coiled Cable (RJ to D9)