

\$2500THS Series

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



New S2500THS 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 (2200 mA/h)

Easy 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





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Print Mechanism:

Printing Method: Thermal dot line printing

Dot Per Line: 384

Number of heat elements: 2 heater/dot, 142 ohms/dot

Printing Width: 48mm
Resolution: 8 dots/mm
Paper feed pitch: 0.125mm

Printing speed: 50mm/sec @ 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 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 codes: Codes 39,128, 2 of 5, UPC-A, UPC-E, UPC/EAN-8

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 3x1.5 (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:

eed: Up to 38.4K depending on computer capability

Std.IrDA Transfer Speed: Handshaking: 9600 connect and transfer 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: $\sim 30,000$ (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 mAh

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, Overcurrent 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 Interfaces/Mechanical:

Status indicators: 3 LEDs (2 are multi functioning) - Power/ERROR,

Charging, Ready/Fault

User switches: 2 switches – 0n/0ff, 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) **Drop:** Exceeds industry standard for drop

Agency Approvals: FCC: Part 15 Subpart B, Class B CE: EN60950

CE: EN55022 Class B; CE: EN61000-3-2; CE: EN61000-3-3; CE: EN50024. AS/NZ: 3548 Class B

Complies with EMC Directive 89/336/EEC and

Low Voltage Directive 73/23/EEC

Conforms to ANSI/UL STD 60950 & Certified to

CAN/CSA STD C22.2 No. 60950-00

CB Certified

ETL Listed, control # 3046813

IEC 68 certified

Ordering Information:

Printer:

78328I1 S2500THS with RS-232 and IrDA Interface

(US Style Adapter)

7832812 change last digit to 2 for Euro style Adapter
7832814 change last digit to 4 for UK style Adapter
7832814 add "R" for 3-track MCR (eg 7832812R)

add "-1" for Bluetooth option (eg 7832812R-1)

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Accessories:

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 (1850 mAh)

7A100014 Spare battery (new 2200 mAh: Available 08/04)

5892RJD9 Coiled Cable (RJ to D9)