S2500 Series

Ultra Lightweight 2.25" receipt printer with wireless connectivity

- 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!"
- Light-weight - 465g with paper
- New Lithium Ion battery for more receipts per charge
- Faster printing - reduces waiting time
- 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

Maxatec portable printers

New S2500 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 mAh)

Easy to Integrate:
- 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-moulds
- Printer is in-field programmable for firmware, font and logo setup

EXTECH INSTRUMENTS

S2500 Series

Print Mechanism

Printing Method	Thermal dot line printing
Dots 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 linear at 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 at 64 dots
Reliability	50 million MCTF (mean characters until fail) at 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 Code	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 (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, 19200, 38400 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")
Lines of Print/roll	5200 (1.5" diameter roll, 0.4" core, approx 60' long)
Paper Rolls Per Charge	~6
Lines Per Charge	~30,000 (4" reciept followed by 60 second delay then repeat)

Power

Power Supply	Internal rechargeable battery with wall mount DC power pack
Battery	2 cell Lithium Ion, 2200 mAh
DC Power Pack	10V/1.4 A DC/AC UL listed adapter standard
Battery	Internal 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 Interfaces/Mechanical

Status Indicators	3 LEDs (2 multifunction) - 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, IrDA with Ambient Light Filter, integrated Bluetooth™ radio module (optional), Integrated magnetic card reader (optional)
Dimensions	107x138x68mm (4.2x5.4x2.7") WxLxH
Weight	465g (16oz) with paper and battery pack
Warranty	1 Year standard (3year available at extra cost)
OEM	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 IEC68 Certified

Ordering Information

78328I1 [2] [4] [R] [-1]	S2500THS with RS-232 and IrDA Interface (US Style Adapter) (change last digit to **2** for Euro style 220v and **4** for UK style adapter versions) Add **R** for 3-track MCR Add **-1** for Bluetooth
151131	Power Adapter, 12-16 VDC input vehicle adapter
756998 -2	Belt Loop System (included as standard)
757351	Shoulder Strap
757060	Spare paper pack of 5 rolls
7A100014	Spare Battery (new 2200mAh available 04/08)
7A100011	Spare Battery (1850mAh)
5892RJD9	Coiled Cable (RJ to D9)

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