



Maxatec
portable printers

S1500T Series

Ultra lightweight 2.25" (57mm) receipt printer

- Two power options: DC power and battery power
- DC Power:
 - Desk top for fixed POS applications
 - In-vehicle for transaction processing applications
- Battery power:
 - Portable battery for extra flexibility
 - Use batteries internally or externally charged
- New easy loading paper system
- Light-weight - 345g with paper
- Wireless connectivity for personal area networks
 - Uniquely designed IrDA communication system
 - Optional integrated Bluetooth™
- State-of-the-art integrated micro-processor
 - Flash Memory - add logos, bar codes and other graphic elements
 - Faster Printing - reduces print time per receipt
- Optional new Lithium Ion battery for more receipts per charge
- Optional built-in 3-track micro MCR
- Full 12 month warranty including the print head



New S1500T Design Details

Flexible Power Options:

- Desk-top version powered by wall mounted power supply
- In-vehicle powered by special vehicle power supply
- Portable version powered by extra capacity Lithium Ion battery cartridge (2200 mAh)

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

Easy to Integrate:

- Multiple communication interfaces including Serial, IrDA and Bluetooth™
- MS-DOS and Windows compatible with full-speed handshake
- Print drivers available for Windows 95, 98, 2000, XP
- Print utilities available for all CE (including Windows CE, Pocket PC, .NET) and Palm

Seiko Thermal Print Head (rated 2" per second at 7.2V)

- Easy Load Clamshell style paper load system with press 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

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

Special Features:

- Resident fonts to enable printing from 12 to 24 characters per inch
- Printer is in-field programmable for firmware, font and logo setup
- Optional integrated magnetic card reader
- Two-bay battery charger for portable version



www.maxatec-europe.com

S1500T Series

Physical Characteristics	
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 at 7.2 Volts, 4 to 8 lines per sec
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, IBM Graphic
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 standard; IrDA and 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) - note roll diameter might grow to 1.6"
Paper Rolls Per Charge	~6
Lines Per Charge	~30,000 (4" receipt followed by 60 second delay then repeat)

Power - Desktop			
Power Supply	7.5V/3.5 Amp output DC power supply standard		
Power - Portable			
Power Supply	2 bay re-charger (externally rechargeable battery option)		
Battery	2 cell Lithium Ion		
DC Power Pack	10V/1.4 DC/AC UL listed adapter standard (inprinter charging)		
Power ON/OFF	Power ON/OFF switch, by raising RTS input, or by 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 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/vehicle power supply adapter, IrDA with Ambient Light Filter, Bluetooth™ option		
Dimensions	107x138x68mm (4.2x5.4x2.7") WxLxH		
Weight	395g (13oz) with paper		
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	<table border="0"> <tr> <td>FCC: Part 15 Subpart B Class B CEEN60950 CEEN55022 Class B CEEN61000-3-2 CEEN61000-3-3 CEEN50024</td> <td>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</td> </tr> </table>	FCC: Part 15 Subpart B Class B CEEN60950 CEEN55022 Class B CEEN61000-3-2 CEEN61000-3-3 CEEN50024	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
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Ordering Information			
Printer Portable 7831811	S1500T 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		
[2] [4] [R] [-1]			
Printer Desktop 78318S1-DT	S1500T with RS-232 (change last digit to 2 for euro style 220v and 4 for UK style adapter versions). Add R for 3 track MCR, and -1 for Bluetooth option. Change S to I to add IrDA		
[2] [4] [R] [S] [I] [-1]			
Printer In-Vehicle 78318S1 - VEH	S1500T with RS-232 (Universal in-vehicle power supply) Add R for 3-track MCR, Add 1 for Bluetooth - Change S to I to add IrDA		
[R] [S] [I] [1]			
756998 -2	Belt Loop System		
757060	Spare paper pkg. of 5 rolls		
7A100014	Spare Battery		
767400 [1] [2] [4]	2-bay battery charger (add 1 for US, add 2 for Euro, add 4 for UK)		
5892RJD9	Coiled Cable (RJ to D9)		

All manufacturers trademarks acknowledged. Specifications subject to change without notice. Issue 1 - 2006