



Maxatec
portable printers

S4500THS/S4000T Series

Lightweight 4" (112mm) receipt printers with 3 wireless options

- Designed to withstand the rigours of mobile computing
- Contemporary, lightweight, robust printer
- Over-moulding on S4500THS for additional protection in harsh environments
- Easy "drop-in" paper loading
- Easy to wear with belt loop system or shoulder strap
- New high speed communication system for IrDA, Bluetooth™ and Serial modes
- A field tried, robust IrDA communication system included as standard
- More receipts per charge with new high capacity Lithium Ion battery
- Faster printing to reduce waiting time
- State-of-the art integrated ARM-7 micro-processor
- Flash memory — add logos, bar codes and other graphic elements
- Optional built-in ISO standard 3-track micro magnetic card reader and/or smart card reader
- Optional Bluetooth™ or 802.11b module for state-of-the art wireless communication
- Full 12 month warranty including print head

New S4500THS/S4000T Design Details

Highly Integrated ARM-7 32 bit 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 circuit

Seiko Thermal Print Head (rated 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 Top-Off Charge

- Power adapter option, auto switch to AC power when charging adapter is used
- Hardware and software power management
- New extra capacity Lithium Ion battery cartridge (2200 mAh)

Easy to Integrate:

- Multiple Communication Interfaces including IrDA, Bluetooth™ and 802.11b
- 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 based operating systems

Special Features:

- Resident fonts to enable printing from 10 to 26 characters per inch
- Protective elastomer bumpers on S4500THS
- Printer is in-field programmable for firmware, font and logo setup
- Optional integrated magnetic card reader and/or smart card reader
- Two-bay battery charger



www.maxatec-europe.com

S4500THS/S4000T Series

| Print Mechanism | |
|-----------------------------|---|
| Printing Method | Thermal dot line printing |
| Dots Per Line | 832 |
| Number of Heat Elements | 1 heater/dot, 170 ohms/dot |
| Printing Width | 104mm |
| Resolution | 8 dots/mm |
| Paper Feed Pitch | 0.125mm |
| Printing Speed | 50mm/sec linear at 7.2 Volts, 25% print density |
| Head Temperature Detection | By thermistor with hardware protection against overheating |
| Paper-out/TOF detection | By photo interrupter |
| Operating Voltage | 5V |
| Current Consumption | 2.4A at 64 dots |
| Reliability | Electrical - 100 million pulses Mechanical - 50km |
| 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 or Q-mark sensing |
| Bar Code | Codes 39, 128, 2 of 5, UPC-A, UPC-E, UPC/EAN-8, UPC EAN-13, Codabar and 2-D Barcode (PDF 417) |
| 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 | 40 or 80 (s/w command) |
| Character Size | @40 ch/line 23h x 20w (mm) @80 ch/line 23h x 10w (mm) |
| Print contrast | Auto and user selectable |
| Print output | Double high, double wide bold print underline print and reverse print |
| Optional | Downloadable fonts, logos, forms |
| Communication | |
| Interface | RS232C and IrDA standard; Bluetooth™ option 802.11b option |
| Baud Rate | 2400, 9600, 19200, 38400, 57600, 115200 baud, dip switch select |
| Fast IrDA Transfer Speed | Up to 115K depending on computer capability |
| Std. IrDA Transfer Speed | 9600 connect and transfer |
| Handshaking | CTS/RTS and/or XON/XOFF |
| Print Media | |
| Paper Width | 112mm (4.125") |
| Lines of Print/Roll | 4400 (2.0" diameter roll, 0.4" core, approx 100' long) |
| Paper Rolls Per Charge | ~4 |
| Lines Per Charge | ~17,500 (4" receipt followed by 60 second delay then repeat) |

| Power | | | |
|--|---|--|---|
| Power Supply | Internal rechargeable battery with wall mount DC charging adapter | | |
| Battery | 2 cell Lithium Ion, 2200 mAh | | |
| DC Power Pack | 10V/1.4 A DC UL listed adapter standard | | |
| Battery Recharge | Internal 180 min fast charge with auto switch to top off charge, over voltage, over current and over heat protection | | |
| Power ON/OFF | Power ON/OFF switch, or by raising RTS input, or sending characters through serial input. Auto power down timer can be set or disabled through user application | | |
| User Interface | | | |
| Status Indicators | 3 LEDs (2 multifunction) - Power/Communication Mode, Battery Status/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), integrated 802.11b radio (optional), integrated smart card reader (optional) | | |
| Dimensions | 165x190x70mm (6.5x7.5x2.75") WxLxH including bumpers | | |
| Weight | 850g (30oz) 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) | | |
| Agency Approvals | <table border="0"> <tr> <td>Product Emissions and Immunity Certification FCC Part 15 Subpart B Class B CEEN60950 CEEN55022 Class B CEEN61000-3-2 CEEN61000-3-3 CEEN50024 AS/NZ 3548 Class B</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 GS Certified, Certificate #044500384-1</td> </tr> </table> | Product Emissions and Immunity Certification FCC Part 15 Subpart B Class B CEEN60950 CEEN55022 Class B CEEN61000-3-2 CEEN61000-3-3 CEEN50024 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 GS Certified, Certificate #044500384-1 |
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| Ordering Information | | | |
| Printer 7862811 | S4500THS with 115K 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 S for smart card reader, Add RS for MCR and SCR, Add -1 for Bluetooth, Add -2 for 802.11b option | | |
| [2] [4] [R] [S] [-1] [-2] | | | |
| Printer 7861811 | S4000T with RS-232 and 115K 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 S for smart card reader, Add RS for MCR and SCR, Add -1 or Bluetooth, Add -2 for 802.11b option | | |
| [2] [4] [R] [S] [-1] [-2] | | | |
| 151131 | Power adapter, 12-16 VDC input vehicle adapter | | |
| 756998-2 | Belt loop system (included as standard) | | |
| 757351 | Shoulder Strap | | |
| 757064 | Spare paper, pack of 5 rolls | | |
| 7A100014 | Spare battery | | |
| 5892RJD9 | Coiled Cable (RJ to D9) | | |

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