



Maxatec
portable printers

S3750THS Series

Lightweight 3" (80mm) receipt printer with 3 wireless communication options

- Designed to withstand the rigours of mobile computing
- Contemporary, lightweight, robust printer
- Easy "drop-in" paper loading
- Easy to wear with belt loop system or shoulder strap
- Field tried, robust IrDA communication standard
- More receipts per charge with new Lithium Ion battery
- Faster printing to reduce the time to print each receipt
- State-of-the art integrated 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 S3750THS 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

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

- Easy Load Clamshell style paper load system with pull-bar 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 12 to 24 characters per inch
- Protective bumpers
- 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

S3750THS Series

Print Mechanism	
Printing Method	Thermal dot line printing
Dots Per Line	576
Number Of Heat Elements	2 heater/dot, 142 ohms/dot
Printing Width	70mm
Resolution	8 dots/mm
Paper Feed Pitch	0.125mm
Printing Speed	50mm/sec at 6 Volts, 4 to 7 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 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 option
Bar Code	Codes 39, 128, 2 of 5, UPC-A, UPC-E, UPC/EAN-8, UPC/EAN-13, Codabar
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	36, 48, 57, 60, 63, 72 (s/w command)
Character Size	3x2, 3x1.5, 3x1.15 (HxW mm)
Print Contrast	Auto and user selectable
Print Output	Double high, double wide and bold print
Optional	80 columns (loaded)
Communication	
Interface	RS232C and IrDA standard; Bluetooth™ option 802.11b 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	80mm (3.125")
Lines of Print/roll	4400 (1.375" diameter roll, 0.4" core, approx 15m or 48' long)
Paper Rolls Per Charge	~8
Lines Per Charge	~35,000 (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 fast 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, 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 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	120x152x57mm (4.75x6.0x2.25") WxLxH
Weight	580g (20oz) with paper and battery pack
Warranty	1 Year standard (3year available at extra cost)
OEM	Design services available
Environmental Specifications (Based on S3500T)	
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 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
Ordering Information	
Printer 7842811	S3750THS 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 S for smart card reader, Add -1 for Bluetooth, Add -2 for 802.11b option, Add RS for MCR and SCR
[2] [4] [R] [S] [-1] [-2]	
151131	Power adapter, 12-16 VDC input vehicle adapter
756998-1	Belt loop system (included as standard)
757351	Shoulder Strap
757061	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