

### Lightweight 3" (80mm) Receipt Printer with three wireless communication options

#### Advantages

- Designed to withstand the rigors 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-readers 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!**



#### 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 at 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 and XP
- Print Utilities available for 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 set-up
- Optional integrated magnetic card reader and/or smart card reader
- Two-bay battery charger

CMC mobile computing

The Heath, Runcorn  
Cheshire, WA7 4QX

t: 08701 65 14 65 e: info@cmc.org.uk w: www.cmc.org.uk



06/10/04-Rev.001

## Print Mechanism:

<b>Printing Method:</b>	Thermal dot line printing
<b>Dot Per Line:</b>	576
<b>Number of heat elements:</b>	2 heater/dot, 142 ohms/dot
<b>Printing Width:</b>	70mm
<b>Resolution:</b>	8 dots/mm
<b>Paper feed pitch:</b>	0.125mm
<b>Printing speed:</b>	50mm/sec @ 6 Volts, between 4 & 7 lines/sec
<b>Head Temperature detection:</b>	By thermistor, hardware protection against overheating
<b>Paper-out/TOF detection:</b>	By photo interrupter
<b>Operating Voltage:</b>	5V
<b>Current Consumption:</b>	3.8A @ 64 dots
<b>Reliability:</b>	50 million mean characters until fail @25% pulse

## Standard Operating Features:

<b>Character set:</b>	ASCII International and IBM Graphic set plus downloadable option. All font tables are in-field downloadable.
<b>Graphic print:</b>	Bit addressable graphic command set graphic logo store and print. Black or Q-Mark Sensing option
<b>Bar codes:</b>	Codes 39,128, 2 of 5, UPC-A, UPC-E, UPC/EAN-8, UPC/EAN-13, Codabar.
<b>Supervised operation:</b>	Supervisory command set to read battery voltage, Print head temperature, buffer status, power management and Firmware version
<b>Line Buffering:</b>	32K standard
<b>Characters per line:</b>	36, 48, 57, 60, 63, 72 (s/w command)
<b>Character Size:</b>	3x2 3x1.5 3x1.15 3x1.5 (HxW mm)
<b>Print contrast:</b>	Auto and user selectable
<b>Print Output:</b>	Double high, double wide and bold print
<b>Optional:</b>	80 columns (loaded)

## Communication:

<b>Interface:</b>	RS232C and IrDA standard; Bluetooth option: 802.11b option
<b>Baud Rate:</b>	2400, 9600, 19,200, 38,400 baud, dip switch select
<b>Fast IrDA Transfer Speed:</b>	Up to 38.4K depending on computer capability
<b>Std.IrDA Transfer Speed:</b>	9600 connect and transfer
<b>Handshaking:</b>	CTS/RTS and/or XON/XOFF

## Print Media:

<b>Paper Width:</b>	80mm (3.125 inches)
<b>Lines of Print/roll:</b>	4400 (1.375" diameter roll, 0.4" core, approx. 15m or 48 feet long)
<b>Paper Rolls per Charge:</b>	~ 8
<b>Lines per Charge:</b>	~ 35,000 (4" receipt followed by 60 second delay then repeat)

## Power:

<b>Power supply:</b>	Internal rechargeable battery with wall mount DC charging adapter
<b>Battery:</b>	2 cell Lithium Ion, 2200 mAh
<b>DC Power Pack:</b>	10V/1.4 A DC/AC UL listed adapter standard.
<b>Battery Recharge:</b>	Internal Fast 180 min fast charge with auto switch to top-off charge; Over-voltage, Over-current and over-heat protection
<b>Power ON/OFF:</b>	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:

<b>Status indicators:</b>	3 LEDs (2 are multi functioning) - Power/ERROR, Charging, Ready/Fault
<b>User switches:</b>	2 switches - On/Off, Feed
<b>Connection:</b>	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); Integrated 802.11b radio (optional); Integrated Smart Card Reader (optional)
<b>Dimensions:</b>	120x152x57mm (4.75x6.0x2.25") WxLxH including bumpers
<b>Weight:</b>	580g (20oz) with paper and battery pack
<b>Warranty:</b>	One year standard (3 years available at extra charge)
<b>OEM Products:</b>	Design services available

## Environmental Specifications (Based on S3500T):

<b>Operating Temperature:</b>	0° to 50°C
<b>Storage Temperature:</b>	-20° to 60°C
<b>Humidity:</b>	Up to 90% RH (non-condensing)
<b>Drop:</b>	3' to concrete
<b>Agency Approvals:</b>	FCC: Part 15 Subpart B, Class B; CE: EN55022 Class B; EN61000-3-2; EN61000-3-3 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 CB Certified; ETL Listed, Control # 3046813

## Ordering Information:

<b>Printer:</b>	S3750THS with RS-232 and IrDA Interface
<b>7842811</b>	(US Style Adapter)
<b>7842812</b>	change last digit to 2 for Euro style Adapter
<b>7842814</b>	change last digit to 4 for UK style Adapter
	add "R" for 3-track MCR (e.g. 7842812R)
	add "S" for smart card reader (e.g. 7842811S)
	add "RS" for smart card reader (e.g. 7842814RS)
	add "-1" for Bluetooth™ option (e.g. 7842812S-1)
	add "-2" for 802.11b option (eg 7842811-2)
<b>Accessories:</b>	
<b>151131</b>	Power Adapter, 12-16 VDC input vehicle adapter
<b>756998</b>	Belt Loop System (included as standard)
<b>757351</b>	Shoulder Strap
<b>757061</b>	Spare paper, pkg. of 5 rolls
<b>7A100014</b>	Spare battery
<b>5892RJD9</b>	Coiled Cable (RJ to D9)