



PRODUCT DATASHEET

S3750THS Series

Robust 3" (80mm) Portable Receipt Printer with Multiple Wireless Communication Options

Rugged, Lightweight

- Contemporary and Rugged Designed to withstand the rigors of mobile printing
- Lightweight and easy to wear with belt loop system or shoulder strap (1.3 lbs with paper and battery)

Trouble-Free Operation

- Ready to Use Printer comes complete with paper, belt loop system, universal adaptor, and battery
- State-of-the-Art Integrated Micro-Processor
 - -Flash Memory Add Logos, Barcodes and other Graphic Elements
 - High Capacity Lithium-Ion Battery More Receipts per Charge
- In-field Programming Upgrade firmware, download fonts and logos
- Easy "drop-in" paper load
- 12 month warranty (including printhead)
 - -Optional extended warranty programs available

Multiple Communications Options

- RS232
- Field tested, robust IrDA communication system
- Optional integrated Bluetooth[™]
- Optional 802.11b/g
- Optional 3-Track Magnetic Card Reader and/or Smart Card Reader

Typical Applications Include

- Field Service: Invoicing and Credit Card Receipts
- Route Accounting; Presales & DSD
- Ticketing: Transportation and Public Safety
- Fixed station* or Mobile POS and Hospitality

S3750THS Design Details:

Fast Charge Circuit with Auto-Switch to Top-Off Charge:

- Powered by high capacity Lithium-Ion battery cartridge (7.4V; 2200 mAh) -Battery charges to the printer internally or in external battery charger
- · Power adaptor option, auto switch to AC power when charging adapter is used
- · Hardware and software power management
- **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:

- High speed (rated up to 2" per second at 7.2V -- voltage, application and temperature dependent) and high resolution print
- Automatic thermal print contrast control (voltage and temperature dependent)
- Built-in detectors to monitor voltage and paper-out.

Easy to Integrate:

- Multiple communication interfaces including Serial, IrDA, Bluetooth™, and 802.11b/g
- MS-DOS and Windows compatible with full-speed handshake
- Print drivers available for Windows 95, 98, 2000, XP and Vista
- Print utilities available for most Mobile Operating Systems (including Windows CE, Pocket PC, WM5 and Palm)

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
- · Protective over-molding for heavy duty field use
- Optional integrated Magnetic Card Reader and/or Smart Card Reader
- Optional two-bay battery charger





S3750THS in environmental case

S3750THS with Magnetic Card Reader

*For further information on the In-Vehicle or Desktop version, please contact Extech Instruments.

www.extech.com/printer



S3750THS Series

Print Mechanism:		
Printing Method: Print Resolution: Dots per Line: Printing Width: Paper Feed Pitch: Printer Speed:	Direct Thermal 203 dpi/ 8 dots mm 576 2.83" (72mm) 0.125mm Up to 2" per second (50mm/sec) @ 7.2 Volts (actual print speed is dependent on state of battery, temperature and nature of application)	
Number of Heat Elements: Head Temperature Detection: Paper-out/Q-Mark/TOF Detection: Operating Voltage: Current Consumption:	2 heater/dot, 142 ohms/dot By thermistor with hardware protection against overheating	
Reliability:	100 million MCTF (mean characters until fail) @ 25% density	
Operating Characteris		
Character set: Additional Character Sets: Optional Character Sets: Graphic print:	ASCII International, PC Line Draw Simplified Chinese, Hebrew, Arabic, Polish, Korean Downloadable fixed-width fonts Supports 8-bit graphic printing, customs fonts and logo downloading	
Bar code Symbologies: Linear:	Codes 39, Code128, UCC/EAN-128, Interleaved2 of 5, UPC-A, UPC-E, EAN/JAN-8, EAN/JAN-13, Codabar,	
2 Dimensional: Supervisory commands:	PDF417 (optional) Commands available to read battery voltage, buffer status, firmware and hardware version	
Memory: SRAM:	32K standard as cache memory (fast, low power memory)	
Flash: Characters per line:	256K + 32K for program and tables plus downloaded features 36, 48, 57, 64, 72, 96 (s/w command)	
Print contrast: Special Print Character Attributes:	Auto and user selectable Double high, double wide and bold print	
Communication:		
Interface: Standard:	RS232C (up to 38.4K depending on computer capability) IrDA (up to 38.4K depending on computer capability)	
Optional: Dip Switch Selectable	Bluetooth [™] V2.0 WLAN 802.11b/g	
Baud Rate: Handshaking:	2400 – 38.4K Hardware (CTS/RTS) and/or Software (XON/XOFF)	
Print Media:		
Media Type:	Direct Thermal Paper (Standard paper is Kansaki P390)	
Paper Width: Max Roll Size: Roll Core ID: Paper Rolls per Charge: Total Length Printed Per Charge:	3.125" (80mm) 43' length @ 0D: 1.375" using standard paper 0.4" ~ 5 ~ 235 ft (71m)	
	 (4" receipt followed by 60 second delay then repeat) d printer performance, use Extech supplied paper) 	

(For opumum print quanty and printer performance, use exteen supplied paper)		
Power:		
Battery:	Internal rechargeable 2 cell Lithium-Ion (7.4V; 2200 mAh)	
Battery Life:	80% of original capacity after 300 cycles (typical)	
Recharging:	3 hours@ fast rate charge (at empty)	
External Chargin	g Options:	
DC Power F	ack: 100V - 240VAC input, 10V/1.32A output	
	UL listed adapter standard (in-printer charging)	
In-Vehicle (Charger: 10.6V~30V, Cigarette Lighter adaptor	
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.	
Software:		

User Interface:

User switche Connection:

Status indicators:	3 LEDs (2 are multi functioning)
	Power/ERROR, Charging, Ready/Fault
User switches:	2 switches – Power (On/Off), Feed
Commontions	

RJ type (6 pin) for Data I/O Infra-Red (IrDA) with Ambient Light Filter Bluetooth™ v 1.2 (optional) WLAN: 802.11b/g (optional) Magnetic Card Reader (optional) Smart Card Reader (optional)

Mechanical:

Construction:
Dimensions:
Weight:
Printer Only:
Printer with
paper and battery:
Warranty:
Standard:
Optional:
OEM Products:

Cycolac KJW Enclosure with Rubber Bumpers 6.1"Lx5"Wx2.27"H (156L x127.2Wx 57.6H mm) 15oz (422g)

1lbs 4oz (583g)

One year standard Up to 5 year programs available at extra charge Design services available

Enviromental Specifications:

Operating Temperature: Storage Temperature: **Charging Temperature:** Humidity: Drop:

14° to 122°F (-10° to 50°C) -4° to 140°F (-20° to 60°C) 32° to 122°F (0° to 50°C) 10 - 90% RH (non-condensing) 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 and Certified to CAN/CSA STD C22.2 No. 60950-00 **CB** Certified ETL Listed, Control # 3046813 IEC 68 Certified GS Certified, #04US00384-1 IP54 Rated (with Environmental Case)

Ordering Information:

The S3750THS series comes standard with IrDA, RS-232, Battery, 1 Paper Roll, Universal AC Adapter (180-minute Fast Charge), Belt Loop System, Print Head Cleaning Pen, and a 1 year warranty that includes the print head.

78428l1 [] [] [] [] []	S3750THS with RS-232 and IrDA Interface (Universal Adaptor) add "R" for 3-Track Magnetic Card Reader (e.g. 7842811R) add "S" for Smart Card Reader (e.g. 7842811S) add "RS" for 3-Track Magnetic Card Reader and Smart Card Reader add "-1" for Bluetooth option (e.g. 7842811-1) add "-2" for 802.11b/g option (e.g. 7842811-2)
Accessories:	
756985	IP54 Certified Environmental Case (NO MCR Opening)
756998-1	Spare Belt Loop System
757351	Shoulder Strap with Quick Clip
757061	Spare Paper, Pkg. of 5 rolls
757061-CASE	Spare Paper (Case of 200 rolls)
7A100014	Spare Battery (2200 mAh)
767400-1	2-Bay Battery Charger (US plug)
767400-2	2-Bay Battery Charger (EURO plug)
767400-4	2-Bay Battery Charger (UK plug)
157261	Universal AC adapter (included as standard)

5892RJD9-1 Coiled Cable, Straight Plug

10.6~30V In-Vehicle Adaptor (with battery in printer) 151133

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Extech Logo Downloading utility Extech Bluetooth[™] Configuration utility