

### Ultra Lightweight 2.25" (57mm) Receipt Printer with loads of options

#### Advantages

- 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
- Weighs less than one pound
- 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!**



#### 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 mA/h)

##### 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

**Print Mechanism:**

<b>Printing Method:</b>	Thermal dot line printing
<b>Dot Per Line:</b>	384
<b>Number of heat elements:</b>	2 heater/dot, 142 ohms/dot
<b>Printing Width:</b>	48mm
<b>Resolution:</b>	8 dots/mm
<b>Paper feed pitch:</b>	0.125mm
<b>Printing speed:</b>	50mm/sec @ 7.2 Volts, 4 to 8 lines/sec depending on # of columns
<b>Head Temperature detection:</b>	By thermistor with 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 MCTF (mean characters until fail) @25% pulse

**Standard Operating Features:**

<b>Character set:</b>	ASCII International, IBM Graphic
<b>Graphic print:</b>	Bit addressable graphic command set; 8 graphic logo store and print. Black Mark Sensing
<b>Bar codes:</b>	Codes 39,128, 2 of 5, UPC-A, UPC-E, UPC/EAN-8
<b>Supervised operation:</b>	Supervisory command set to read battery voltage, buffer status, power management, and Firmware version
<b>Line Buffering:</b>	32K standard
<b>Characters per line:</b>	24, 32, 38, 40, 42, 48 (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

**Communication:**

<b>Interface:</b>	RS232C standard; IrDA and Bluetooth™ optional
<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>	57mm (2.25 inches)
<b>Lines of Print/roll:</b>	5200 (1.5" diameter roll, 0.4" core, approx. 60 feet long) – note roll diameter might grow to 1.6")
<b>Paper Rolls per Charge:</b>	~ 6
<b>Lines per Charge:</b>	~ 30,000 (4" receipt followed by 60 second delay then repeat)

**Power - DT:**

<b>Power Pack:</b>	7.5V/3.5 Amp output DC Power Supply standard.
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**Power - Portable:**

<b>Power Supply:</b>	2 bay re-charger (externally rechargeable battery option)
<b>Battery:</b>	2 cell Lithium Ion
<b>DC Power Pack:</b>	10V/1.4 A DC/AC UL listed adapter standard (inprinter charging).
<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 Interface**

<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/vehicle power supply; Infra-Red (IrDA) with Ambient Light FilterBluetooth™ option

**Mechanical:**

<b>Dimensions:</b>	107x138x68mm (4.2x5.4x2.7") WxLxH
<b>Weight:</b>	395g (13oz approx) with paper
<b>Warranty:</b>	One year standard (3 years available at extra charge)
<b>OEM Products:</b>	Design services available

**Environmental Specifications:**

<b>Operating Temperature:</b>	-10° to 50°C
<b>Storage Temperature:</b>	-20° to 60°C
<b>Humidity:</b>	Up to 90% RH (non-condensing)
<b>Drop:</b>	Exceeds industry standard for drop
<b>Agency Approvals:</b>	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 & Certified to CAN/CSA STD C22.2 No. 60950-00 CB Certified ETL Listed, control # 3046813 IEC 68 certified

**Ordering Information: All come with power supply/charger****Printer - Portable:**

<b>78318I1</b>	S1500T with RS-232 and IrDA Interface (US Style Plug)
<b>78318I2</b>	change last digit to 2 for Euro style Plug
<b>78318I4</b>	change last digit to 4 for UK style Plug
<b>[ ]</b>	add "R" for 3-track MCR (eg 78318I2R)
<b>[ ]</b>	add "-1" for Bluetooth option (eg 78318I4R-1)

**Printer Desk-Top:**

<b>78318S1-DT</b>	S1500T with RS-232 (US Style Plug)
<b>78318S2-DT</b>	change last digit to 2 for Euro style Plug
<b>78318S4-DT</b>	change last digit to 4 for UK style Plug
<b>[ ]</b>	add "R" for 3-track MCR (eg 78318S2R-DT)
<b>[ ]</b>	add "-1" for Bluetooth option (eg 78318S4R-1-DT)

**Note:****Printer In-Vehicle:**

<b>78318S1-VEH</b>	S1500T with RS-232 (Universal In-Vehicle Power Supply)
<b>[ ]</b>	add "R" for 3-track MCR (eg 78318S2R-VEH)
<b>[ ]</b>	add "-1" for Bluetooth option (eg 78318S4R-1-VEH)

**Note:****Accessories:**

<b>756998</b>	Belt Loop System
<b>757060</b>	Spare paper, pkg. of 5 rolls
<b>7A100014</b>	Spare battery
<b>767400-1</b>	2-bay battery charger (US plug)
<b>767400-2</b>	2-bay battery charger (EURO plug)
<b>767400-4</b>	2-bay battery charger (UK plug)
<b>5892RJD9</b>	Coiled Cable (RJ to D9)