

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

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Print Mechanism:

Printing Method:	Thermal dot line printing
Dot Per Line:	384
Number of heat elements:	2 heater/dot, 142 ohms/dot
Printing Width:	48mm
Resolution:	8 dots/mm
Paper feed pitch:	0.125mm
Printing speed:	50mm/sec @ 7.2 Volts, 4 to 8 lines/sec depending on # of columns
Head Temperature detection:	By thermistor with hardware protection against overheating
Paper-out/TOF detection:	By photo interrupter
Operating Voltage:	5V
Current Consumption:	3.8A @ 64 dots
Reliability:	50 million MCTF (mean characters until fail) @25% pulse

Standard Operating Features:

Character set:	ASCII International, IBM Graphic
Graphic print:	Bit addressable graphic command set; 8 graphic logo store and print. Black Mark Sensing
Bar codes:	Codes 39,128, 2 of 5, UPC-A, UPC-E, UPC/EAN-8
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:	24, 32, 38, 40, 42, 48 (s/w command)
Character Size:	3x2 3x1.5 3x1.15 3x1.5 (HxW mm)
Print contrast:	Auto and user selectable
Print Output:	Double high, double wide and bold print

Communication:

Interface:	RS232C standard; IrDA and Bluetooth™ optional
Baud Rate:	2400, 9600, 19,200, 38,400 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:	57mm (2.25 inches)
Lines of Print/roll:	5200 (1.5" diameter roll, 0.4" core, approx. 60 feet long) – note roll diameter might grow to 1.6")
Paper Rolls per Charge:	~ 6
Lines per Charge:	~ 30,000 (4" receipt followed by 60 second delay then repeat)

Power - DT:

Power Pack:	7.5V/3.5 Amp output DC Power Supply standard.
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Power - Portable:

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

User Interface

Status indicators:	3 LEDs (2 are multi functioning) - 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/vehicle power supply; Infra-Red (IrDA) with Ambient Light FilterBluetooth™ option

Mechanical:

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

Environmental Specifications:

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 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:

783181I	S1500T with RS-232 and IrDA Interface (US Style Plug)
783181Z	change last digit to 2 for Euro style Plug
783181A	change last digit to 4 for UK style Plug
	add "R" for 3-track MCR (eg 783181ZR)
	add "-1" for Bluetooth option (eg 783181A-1)

Printer Desk-Top:

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

Note:
Change "S" to "I" to add IrDA

Printer In-Vehicle:

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

Note:
Change "S" to "I" to add IrDA

Accessories:

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