



**PRODUCT DATASHEET** 

# **S4000T Series** Lightweight 4" (111mm) In-Vehicle Receipt Printer with Loads of Options



- In-Vehicle for transaction processing applications
- Compact, contemporary design
- Durable and reliable design
- Lightweight weighs less than a pound (with paper)
- •\*Battery operated version available

# Trouble-free operation

- Highly Integrated Arm-7 32 bit Microcontroller:

   -Flash Memory Add logos, Bar Codes, and other Graphic elements
   -Faster Printing Reduces Print Time per Receipt
- Wide-range Input Vehicle Power Supply
- In-field Programming Update Firmware, Download Fonts and Logos
- · Easy Load Clamshell style in paper load system with
- press button release for paper door
- 12 Month Warranty (including printhead)

   Optional Extended Warranty Available
- Multiple communications options
  - RS232
  - · Field tried, robust IrDA communication systems included as standard
  - Optional integrated Bluetooth<sup>™</sup>
  - Optional WLAN 802.11b/g
  - Optional 3-Track Magnetic Card Reader
  - Optional Smart Card Reader

# S4000T-VEH Design Details:

#### Power

- In-vehicle adaptor (10.8V to 30V)
- Highly Integrated Arm-7 32 bit Microcontroller by ST-Electronics
- Flash based integrated CPU contains firmware, resident fonts, rotated fonts, downloadable fonts, graphics, logos, and bar codes
- · 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
- Seiko Thermal Print Head (rated up to 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.

#### Easy to Intergrate:

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

### Special Features:

- Resident fonts to enable printing from 10 to 26 characters per inch
- 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

\*See seperate specification sheet for details of portable printer version

# www.extech.com/printer





# **S4000T Series**

Print Mechanism:		User Interface:		
Printing Method: Print Resolution:	Direct Thermal 203 dpi/ 8 dots mm	Status indicators:		icators: 3 LEDs (2 are multi functioning) - nmunication Mode, Battery Status/Charging,
Dots per Line:	832		Ready/Fau	
Printing Width:	4.1" (104mm)	User switches:	2 switches	s – On/Off, Feed
Paper Feed Pitch:	0.125mm	Connection:	<b>B</b> 1 1 (2)	
Printer Speed:	Up to 2" per second (50mm/sec) @ 7.2 Volts		21 (	pin) for Data I/O (IrDA) with Ambient Light Filter
	(actual print speed is dependent on state of			<sup>™</sup> v 1.2 (optional)
	battery, temperature and nature of application)			2.11b/g (optional)
Number of Heat Elements:	1heater/dot, 170 ohms/dot			Card Reader (optional)
Head Temperature Detection:	By thermistor with hardware protection			d Reader (optional)
	against overheating			· · · · · · · · · · · · · · · · · · ·
Paper-out/Q-Mark/(TOF) Detectio		Mechanical:		
Operating Voltage: Current Consumption:	5V 2.4A @ 64 dots	Construction:	Cycolac K	JW Enclosure
Reliability:	100 million MCTF	Dimensions:	7.5"W x 6	.25"L x 2. 5"H (190W x 158.7L x 63.5H mm)
nellability.	(mean characters until fail) @ 25% density	Weight:	1.1lbs our	nces (500g) (Printer Only)
		Warranty:		
Operating Characteristics:		Standard:	One year :	
Character set: A	SCII International, PC Line Draw	Optional:		ears available at extra charge
	Simplified/Traditional Chinese, Hebrew, Arabic,	OEM Products:	Design se	rvices available
Р	Polish, Korean, Vietnamese, Turkish	<b>Enviromental Spe</b>	cifications	
Optional Character Sets: D	Downloadable fixed-width fonts			
	Supports 8-bit graphic printing, page printing,	Operating Temperature:		2°F (-10° to 50°C)
	ustom fonts and logo downloading	Storage Temperature: Charging Temperature:		)°F (-20° to 60°C) 2°F (0° to 50°C)
Bar code Symbologies:		Humidity:		RH (non-condensing)
	Codes 39, Code128, UCC/EAN-128,	Drop:		ndustry standard for drop
	nterleaved2 of 5, UPC-A, UPC-E, EAN/JAN-8,	5100.	EXOCOUS	
	AN/Jan-13, Codabar,			
	PDF417	Agency Approvals	51	
, ,	Commands available to read battery voltage,	FCC: Part 15 Subpart B, Cla	iss B	Conforms to ANSI/UL STD 60950 and
	ouffer status, firmware and hardware version	CE: EN60950		Certified to CAN/CSA STD C22.2 No.
Memory:		CE: EN55022 Class B;		60950-00
	256KB + 1MB MR (internel)	CE: EN61000-3-2;		CB Certified, No. 60950-00
	MB (internal) MB (external)	CE: EN61000-3-3;		GS Certified, #04US00384-1
	10, 52, 69, 80, 92, 104 (s/w command)	CE: EN50024		ETL Listed, control # 3046813
	Auto and user selectable	AS/NZ: 3548 Class B	00/000/555	IEC 68 certified
	Double high, double wide bold print, underline printer	Complies with EMC Directiv		IP54 Rated (with Environmental Case)
	and reverse print	and Low Voltage Directive	73/23/EEC	
Communication:		Ordering Informa	tion:	
Interface:		The S4000T series comes a	standard with IrD/	A and RS-232, 1 roll of paper and a 1 year
Standard:	RS232C			supply/charger not included.
otanuaru.	(up to 115.2KB depending on computer capability)			
	IrDA			
	(m to 115 OKD down ling on computer conshift)	78618I0-VEH \$4000	T with RS-232 ar	nd IrDA Interface

78618I0-VEH	S4000T with RS-232 and IrDA Interface
[]	add "R" for 3-Track Magnetic Card Reader (e.g. 78618IOR-VEH)
[]	add "S" for Smart Card Reader
[][]	add "RS" for Magnetic Card Reader and Smart Card Reader
-[]	add "-1" for Bluetooth option (e.g. 78618IOR-1-VEH)
-[]	add "-2" for WLAN 802.11b/g option

For RS-232 only, change the "I" to "S"

Note: The R, S, or RS need to appear before the - and 1 or 2 need to appear before the VEH.

Accessories:	
151134	10.8V to 30V In-Vehicle Charge
757064	Spare paper, pkg. of 5 rolls
757064-CASE	Spare paper (Case of 50 rolls)
5892RJD9	Coiled Cable (RJ to D9)

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RS232C (up to 115.2KB depending on computer capability) IrDA	
(up to 115.2KB depending on computer capability) Bluetooth™ v. 1.2 (optional) WLAN 802.11b/g (optional)	
2400 – 115.2KB Hardware (CTS/RTS) and/or Software (XON/XOFF)	
Direct Thermal Paper and Tag Stock, Limited Label Support 4.375" (111mm) 105" @ OD: 2.0" (Standard paper is Kansaki P390) 0.4"	

Lines of Print/Roll: 4400 (2.0" diameter roll, 0.4" core, approx. 105 feet long) Paper Rolls per Charge: ~ 4 Lines per Charge: ~ 17,500

(4" receipt followed by 60 second delay then repeat)

(For optimum print quality and printer performance, use Extech supplied paper)

## Software:

Extech Logo downloading utility Extech Bluetooth™ configuration utility Extech Form Fiesta page printing utility