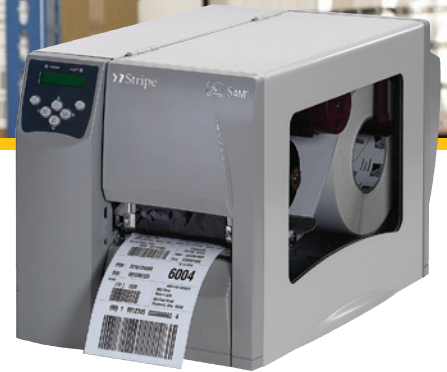# Zebra® S4M™

S4M™—The Simple Way to Add Dependable Printing

Whether you're new to bar coding, upgrading from an older Stripe® or desktop printer, or adding new printers, Zebra's S4M thermal printer delivers an affordable solution for many labeling requirements.

Designed for the budget-minded, this printer offers you ease of use, the durability of a metal frame/case, and a full 8" media roll capacity that means fewer label changes. The S4M is an outstanding value compared to similar printers in the market.

Simple to Use

The S4M printer offers a variety of ways to connect—from serial, parallel, and USB interfaces to internal 10/100 Ethernet or IEEE 802.11b/g—for simple system integration. And it will fit right in with your other Zebra printers because it speaks the same programming languages (ZPL® and EPL™). Plus, Zebra's APL™ language lets you easily change from other-brand printers to S4M printers without changing your label formats.

Zebra's S4M printer proudly wears the Stripe family name by providing the features needed to support many applications, including:

- Compliance labeling—comply with the latest industry and customer requirements

- Manufacturing—provide accurate, end-to-end identification to track materials through your factory or supply chain

- Distribution—bar code labeling for packing, shipping, inventory management

- Healthcare patient safety— hospital pharmacy unit-dose labeling, specimen and lab labeling, wristband printing, admissions/records labeling

- Unicode™ compliant—for faster, multi-language printing to meet global needs

Specifications at a Glance*

Standard Features
- Print methods: Direct thermal; Thermal transfer (optional)
- Construction: Die-cast metal frame with sheet metal enclosure
- Metal media cover with enlarged clear window
- Element Energy Equalizer™ (E³™) for superior print quality
- XML-Enabled printing–direct-connect integration for bar code label printing; eliminates license fees and print server hardware and lowers customization and programming costs
- Back-lit LCD control panel
- Parallel, USB 1.1 and RS-232 serial ports

Printer Specifications

Resolution
- 203 dpi/8 dots per mm;
- 300 dpi/12 dots per mm (optional)

Memory
Standard: 4 MB Flash, 8 MB DRAM

Print Width
4.09"/104 mm

Print Length
- 203 dpi: 157"/3,988 mm
- 300 dpi: 73"/1,854 mm (optional)

Print Speed
6"/152 mm per second

Media Sensors
Transmissive and reflective sensing sensors

Media Characteristics

Maximum non-continuous label length
Maximum non-continuous: 39"/991 mm

Maximum label and liner width
0.75"/19.4 mm to 4.50'/114 mm

Maximum media roll size
8.0"/203 mm O.D. on a 3.0"/76 mm I.D. core
6.0"/152 mm O.D. on a 1.0"/25 mm I.D. core

Media thickness
0.003"/0.076 mm to 0.010"/0.25 mm

Media types
Continuous, die-cut, tags, black-mark

Ribbon Characteristics

Outside diameter
3.2"/81.3 mm

Standard length
984'/300 m or 1476'/450 m

Ratio
- 2:1 media roll to ribbon ratio for 984'/300 m
- 3:1 media roll ribbon ratio for 1476'/450 m

Width
1.57"/40 mm to 4.33"/110 mm

Ribbon setup
Ribbon wound ink-side out

Core I.D.
1.0"/25.4 mm

Operating Characteristics

Environmental
- Operating temperature:
  40° F/5° C to 104° F/40° C (Thermal Transfer)
  32° F/0° C to 104° F/40° C (Direct Thermal)
- Storage temperature: -40° F/-40° C to 140° F/60° C
- Operating humidity: 20-85% non-condensing
- Storage humidity: 5-85% non-condensing

Electrical
Universal auto-ranging (PFC-compliant) power supply 90-265 VAC; 48-62Hz

Agency Approvals
- IEC60950, EN55022 Class B, EN55024, EN61000-3-2, EN 61000-3-3.
- Markings: cULus, CE, Marking,FCC-B, ICES-003, VCCI, C-Tick, NOM, IRAM, CCC, GOST-R

Physical Characteristics
- Width: 10.7"/272 mm
- Height: 11.6"/295 mm
- Depth: 18.8"/477 mm
- Weight: 27.2 lbs/12.4 kg
- Shipping weight: 33.5 lbs/15.2 kg

Zebralink™ Solutions

Software
- ZebraDesigner™ Pro
- ZebraDesigner for XML
- ZebraDesigner
- ZebraNet™ Bridge Enterprise
- ZebraNet Utilities v 7.0
- Zebra Universal Driver
- ZBI-Developer™

Networking Options
- ZebraNet® Internal Wireless Plus option
- ZebraNet Wireless Plus option—supports ZPL® and EPL™
- ZebraNet 10/100 Print Server option (internal or external)

Firmware
- ZPL II®
- Global Printing
- EPL2™
- XML-Enabled printing
- APL-I™/APL-D™ (Contact Zebra Development Services for additional details)
- Webview
- Alert
- ZBI 2.0™

Fonts and Graphics
- 7 bitmapped, 1 smooth scalable (CG Triumvirate™ Bold Condensed)
- International character sets supporting the following code page: IBM® Code Page 850 International character set
- Support user-defined fonts and graphics—including custom logos
- ZPL II drawing commands—including boxes and lines
- Contains UFST® from Monotype Imaging Inc.

Bar Code Symbologies
- Linear: Code 11, Code 39, Code 93, Code 128 subsets A/B/C and UCC case C codes, UPC-A, UPC-E, EAN-8, EAN-13, UPC and EAN 2 or 5 digit extensions, Plessy, Postnet, Standard 2-of-5, Industrial 2-of-5, Interleaved 2-of-5, Logmars, MSI, Codabar, Planet Code, GS1 DataBar (RSS)
- 2-Dimensional: Aztec, Codablock, PDF417, Code 4, Data Matrix, GS1 Databar (RSS), MaxiCode, QR Code, MicroPDF417, TLC 39

Options and Accessories
- Printhead 300 dpi/12 dots per mm
- Peel—a front mount, passive peel option, with no take-up spindle
- Factory installed 64 MB Flash memory option
- Real-time clock (RTC) option
- Thermal transfer ribbon handling option
- Keyboard display unit (KDU)
- Factory installed full-width guillotine knife cutter and catch tray