

Alpha-40L RFID

Mobile Label Barcode Printer

Reliable RFID Labeling Solution On-the-Go Enhances Operational **Efficiency and Traceability**

The Alpha-40L RFID mobile printer complements the prestigious TSC Auto ID stationary RFID product line, giving resellers and end users coverage for multiple applications across various industries. The Alpha-40L RFID is RAIN UHF compliant, user-friendly, heavy-duty and drop-resistant, supporting next generation smart, RFID-enabled solutions for printing and encoding RFID labels in advanced track and trace applications to boost productivity.

The Alpha-40L RFID supports versatile media types, including standard receipts and labels, as well as encoding RFID labels for a smarter and faster solution, when and where you need them. This innovative mobile RFID printer has an auto-calibration function that is simple and easy to use. Users can start printing and encoding RFID labels without the assistance of complicated user manuals, guides or separate software utilities.

With the Apple-certified MFi Bluetooth® 5.0 connection and 802.11 a/b/g/n/ac Wi-Fi fast roaming features, the Alpha-40L RFID not only provides reliable and seamless communication with users' devices, but also securely prints labels wherever they are needed.

The impressive Alpha-40L RFID mobile printer complements industrial models by providing a more convenient option to print and encode RFID labels anytime, anywhere in challenging environments. The new mobile RFID printer provides a full line of accessories to assist in performing diverse labeling tasks while on the go. A high-capacity smart battery paired with SOTI Connect IoT management tool or TSC Console remote printer management system enables you to work confidently all day, while it continuously monitors battery power consumption and performance.

Key Features

Performance

- RAIN UHF compliant, encodes based on GS1 EPC Gen2 v2/ ISO 18000-63
- Supports multiple brands of commonly available RFID inlays and chips
- Works with gap or black mark RFID labels on 0.75", 1.0", and 1.5" cores, and labels down to 0.625" in length
- Industry-leading automatic RFID label calibration for easy setup
- Overstrikes RFID labels not encoded successfully

Rugged Mobility

- IP54-rated for dust and water resistance
- Withstands 1.0m tumble and 1.8m drop
- Meets MIL-STD-810G military standards
- Optional protective case withstands 2.5m drop
- 802.11a/b/g/n/ac Wi-Fi module for fast roaming and enterprise-grade security Apple-certified MFi Bluetooth® 5.0 with NFC tap-to-pair for easy connectivity
- Full line of accessories for hands-free mobility

Printer Management

- SOTI Connect and TSC Console remote printer management tools
- TSC Sense Care auto scans and detects unhealthy printhead dots and monitors battery life to ensure full shift productivity
- TSC Mobile Utility App for easy troubleshooting
- SDK software packs for quick development

Applications

Retail

- Exception tagging
- In-store tagging
- Mobile workforce remote tagging
- Relabeling of items for online sales

Transportation & Logistics

- Labeling of shipments without the need for dedicated print stations
- Direct to store or consumer delivery
- Closed-loop airline baggage tracking

Manufacturing & Construction

- Remote tagging of in-field assets
- On-site personnel identification
- On-site time and attendance

- Laboratory sample and drug management
- Sterilization and waste management
- Device and asset management, including RTLS

Food & Beverage

- In-field tagging to ensure correct product information
- In-store tagging of perishable and high-value items
- Tagging of processed/reprocessed items without dedicated print stations



Alpha-40L RFID Accessories

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Alpha-40L RFID Specifications

Model	Alpha-40L	RFID	
Resolution	8 dots/mm(203 dpi)		
Printing Method	Direct Thermal		
Max. Print Speed	Up to 127mm(5")/second		
Max. Print Width	104mm(4.09")		
Max. Print Length	2,794mm(110")		
Enclosure	Plastic with rubber over molded		
Physical Dimension	160mm(W)x191mm(H)x79mm(D) 6.30"(W)x7.52"(H)x3.11"(D)		
Weight (Including Battery)	1,025g(2.26lbs)		
Drop Specification	1.8m(6ft), with protective case can be 2.5m(8.2ft)		
IP Rating	IP54(without case, paper path is excluded)		
Max. Roll Capacity	67mm (2.64")OD		
Processor	32-bit RISC CPU		
Memory	Standard: 128 MB SDRAM, 128 MB Flash, microSD card reader for Flash memory expansion, up to 32 GB Factory Option: 256 MB SDRAM, 512 MB Flash, microSD card reader for Flash memory expansion, up to 32 GB		
Interface	Either one selected Type C USB 2.0 + MFi Bluetooth 5.0 + Passive NFC tag Type C USB 2.0 + 802.11 a/b/g/n/ac with Bluetooth 5.0 + Passive NFC tag Type C is for communication only		
Power	7.4V DC, 6,200mAh Li-ion rechargeable smart battery		
Operation Switch, Button	7 buttons (Power, Feed/Pause, Menu, Navigation keys)		
User Interface	• 2 LED indicators (battery charging status, printer sta • 2.3" color LCD display, 320 x 240 pixels	tus),	
Sensors	Reflective sensor Transmissive sensor	Head open sensor	
Real Time Clock	Standard		
Internal Fonts	8 alpha-numeric bitmap fonts Monotype Imaging® true type font engine with one CG Triumvirate Bold Condensed scalable font		
Barcode	Code128UCC, Code128 subsets A, B, C, EAN128, Interleaved 2 of 5, Interleaved 2 of 5 with check digit, Standard 2 of 5, Industrial 2 of 5, Code39, Code39 with check digit, Code93, EAN13, EAN8, UPCA, UPCE, EAN and UPC 2 (5) digits add-on, Codabar, Postnet, MSI, MSI with check digit, PLESSEY, China post, ITF14, EAN14, Code11, TELEPEN, TELEPEN number, PLANET, Code49, Deutsche Post Identcode, Deutsche Post Leitcode, LOGMARS 2 D barcode CODABLOCK F mode, GS1 DataBar, GS1 DataMatrix, Maxicode, AZTEC, PDF417, QR Code, Micro PDF417, TLC39		
Printer Language	Print: TSPL-EZC (EPL2, ZPL2, CPCL), or ESC-POS RFID: TSPL, ZPL2		
RFID	RAIN UHF Passive (GS1 EPC Gen2 v2 / ISO 18000-63) Fixed Position Antenna Minimum Label/Tag Pitch 0.625" (15.9mm) Counters: Tracks good/overstruck labels/tags		
Media Type	Die-cut, black mark, receipt, fan-fold, continuous (outside wound)		
Media Width	50.8mm - 112mm (2" - 4.4") with liner		
Media Thickness	0.06mm - 0.16mm (0.002" - 0.06")		
Media Height	15.9mm-2,794mm (0.625" - 110") 25.4mm(1")		
Media Core Diameter	*19.1mm(0.75")(with adaptors included with printer) *38.1mm(1.5")(with adaptors included with printer)		
Environment Condition	Operation: -20 °C - 50 °C (-4°F - 122 °F), 10% - 90% non-condensing Storage: -30 °C - 70 °C (-22°F - 158 °F), 10% - 90% non-condensing Charging: 0 °C - 40 °C (32°F - 104 °F), 10% - 90% non-condensing		
Environmental Concern	Comply with RoHS, WEEE, REACH, China RoHS		
Accessories	Belt clip	Li-ion battery Power adaptor	
Limited Warranty	Print head: 25km(1 million inches) or 12 months	Platen: 50km(2 million inches) or 12 months which comes first Battery: 1 year	
Factory Options	Media sensor position (default center, right, or left side)		
User Options	Type C USB 2.0 cable Protective case with shoulder strap Shoulder strap Li-ion smart battery 1-slot docking cradle 4-slot battery charger 4-slot battery charger	12-48V DC power source with battery eliminator 12-48V wire to wire battery eliminator with power supply Wire to wire dummy battery pack Vehicle mount adaptor can be used with RAM® MOUNTS Quick release vehicle mount kit External fanfold media holder with expansion kit	





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• 12-60V DC vehicle open end power supply





release vehicle mount kit