Alpha-30L/40L

Mobile Label Barcode Printer

Intelligent Label Printing for Enterprise Professionals

TSC's new mobile barcode label printers, the Alpha-30L and Alpha-40L are user-friendly, heavy-duty and drop-resistant. The new mobile printers propel you into the next generation of smart, enhanced technology solutions for industrial-grade label printing applications.

With the Apple-certified MFi Bluetooth® 5.0 connection and 802.11 a/b/g/n/ac Wi-Fi fast roaming features, the Alpha-30L and Alpha-40L not only provide reliable and seamless communication with users' devices, they also securely print labels wherever they are needed.

The Alpha-30L and Alpha-40L's smart battery paired with SOTI Connect remote printer management and TSC Console provides unprecedented levels of productivity for enterprises to scale their business seamlessly and efficiently.

The Alpha-30L and Alpha-40L support versatile media handling solutions including built-in peeler and a factory option for a linerless kit for a smarter, greener solution. The brand new mobile printers also provide a full line of accessories to assist in performing diverse labeling tasks while on the go, especially in rigorous logistics applications.

The healthcare tailored Alpha-30LHC comes with a clean white and grey scheme, designed for seamless integration into healthcare environments. The casing is antimicrobial and easy to disinfect, minimizing contamination risks. It adheres to the IEC 60601-1 Medical-Grade standard for a safe and reliable power supply in healthcare facilities.

Key Features

Sophisticated TSC Sense Care

- Auto scans and detects unhealthy printhead dots during printing
- Monitors smart battery to ensure full shift productivity, reduce total cost of ownership and avoid downtime

Seamless Mobility Communication

- MFi Bluetooth® 5.0 with NFC tap-to-pair setup enables easy connectivity
- Dual band Wi-Fi with fast roaming and enterprise-grade security ensures reliable and safe operation

Integrated Software Pack

- Supports label printing applications for different platforms
- TSC mobile printing app is available for both iOS and Android™ users

Industry-Specific Durability Standards

- IP54 rating for dust and water resistance
- Rugged design for drops from 1.8m and tumbles from 1.0m

Dynamic Remote Printer Management

- SOTI Connect and TSC Console support multiple management tasks,reduce maintenance costs and avoid downtime of business-critical devices

Full Line of Accessories

- Assist in performing diverse labeling tasks including hands-free mobility

Applications

Manufacturing

- Raw Materials, Finished Goods
- Asset Management

Transportation and Logistics

- Shipping and Receiving
- Direct Store Delivery

Retail

- Shelf Labeling
- Supermarket Relabeling

Healthcare

- Emergency Medical Service
- Ambulance
- Specimen Labeling



Mobile Printing For Your Business

Key Benefits



High Performance and Rugged Design for On the Go Enterprise Professionals

Enjoy fast, effortless printing on the go with the innovative Alpha-30L and Alpha-40L, which have been carefully crafted from the ground up to provide you with the dependable performance. The Alpha-30L and Alpha-40L are IP54 rated for dust and water resistance. Both models have been rigorously tested to withstand 1.0m tumble and 1.8m drop. Furthermore, protective cases are available for ruggedness level with 2.5m drop.Due to its durable design, the Alpha-30L and Alpha-40L meet MIL-STD-810G military standards for drop and vehicle vibration. Ideal for enterprise professionals on the go, the models have high productivity features for direct store delivery (DSD) and industrial field service.

Dynamic Remote Printer Management with SOTI Connect and TSC Console

The Alpha-30L and Alpha-40L printers are designed to be managed by enterprise-level printer management systems to help users monitor printer status, give warning messages to ensure maximum productivity and avoid downtime. SOTI Connect and TSC Console provide advanced printer management for multiple tasks and reduced maintenance costs. The Alpha-30L and Alpha-40L come with sophisticated features such as smart battery status that can be seamlessly integrated and managed in SOTI Connect and TSC Console. Paired together, these two management systems allow users to respond quickly and keep their operations running smoothly.



Seamless Mobility Communication

Seamless and reliable wireless connection is crucial for mobile devices. TSC introduced the latest 802.11 a/b/g/n/ac Wi-Fi certified module to enable fast roaming and enterprise-grade security to ensure reliable and safe operation. Also, the new mobile printers are equipped with Apple-certified MFi Bluetooth® 5.0 with NFC tap-to-pair for easy connectivity, so users can securely print labels wherever they need them. The TSC Mobile Utility APP is available for both iOS and Android™ users. Using this APP allows an authorized IT staff member to troubleshoot and solve mobile printer problems quickly and efficiently.



Full Line of Accessories

The Alpha-30L and Alpha-40L come with a full line of accessories to assist in performing diverse labeling tasks including hands-free mobility. Available with a complete forklift and vehicle accessory option, the Alpha-30L and Alpha-40L's vehicle mount adaptors allow users to easily integrate the printer onto a forklift with intuitive RAM® mount components. Designed with the need for warehouse vehicles to have a continuous power source in mind, a battery eliminator kit is available for the Alpha-30L and Alpha-40L to increase productivity and prevent downtime for an entire work shift.



Integrated Software Pack

The Alpha-30L and Alpha-40L not only support OPOS, but also provide mainstream platform SDK support for Windows™ and Windows™ Mobile (WinCE), Android™ and iOS. With OPOS and SDK software packs integrated into the Alpha-30L and Alpha-40L mobile printers, users can easily store and manage settings and reduce programming time for faster deployment. After integration, the customized software can be leveraged and tailored to switch between POS terminals and printers for quick port communications, connections and print command transfers.



Alpha-30L and Alpha-40L Accessories

Alpha-30L	Alpha-40L	Description	Factory option	User option
		**Protective Case with Shoulder Strap** The protective case enhances the extra level of protection for harsh environment especially for the outdoor usage.		V
		**Shoulder Strap** Designed for carrying the printer directly without a protective case.		V
		**Belt Clip** Use the belt clip for a complete hands-free solution.		V
		**Li-ion Smart Battery** The Li-ion smart battery works with TSC Console and SOTI Connect to monitor battery information, charge cycles, and remaining capacity.		V
		**1-Slot Docking Cradle** Easily charge the printer without removing the battery.		V
		**4-Slot Docking Cradle** Easily charge multiple printers without removing the battery.		V
		**1-Slot Battery Charger** Use the 1-slot charger to quickly charge the battery without any downtime.		V
		**4-Slot Battery Charger** The 4-slot charger is well-suited for heavy-duty missions.		V
		**12-24V DC Vehicle Power Adaptor** For automobile vehicle plug to charge on the car		V
		**12-60V DC Vehicle Power Adaptor** For automobile vehicle plug to charge on the car		V
		**12-60V DC Vehicle Open End Power Adaptor** For charging on the car with open-ended wire		V
		**12-48V DC Power Source with Battery Eliminator** Connect printer and vehicle power source directly by open-ended wire without using battery. It can be used with vehicle mount adaptor.		V
		**12-48V Wire to Wire Battery Eliminator with Power Supply** Powers the printers directly from a forklift or vehicle, eliminating the need for batteries. It offers quick, tool-free removal and replacement of the dummy battery pack.		V
		**Wire to Wire Dummy Battery Pack** Designed to work exclusively with the 12-48V Wire to Wire Battery Eliminator with Power Supply, it eliminates the need for batteries.		V
		**Vehicle Mount Adaptor** Easily mount the printer on a forklift		V
		**Linerless Kit** The linerless kit suits linerless printing needs.	V	
		**Quick Release Vehicle Mount Kit** Provides an easy and secure printer mounting solution that combines the convenience of mounting with a quick release for optimal functionality on a forklift.		V
		**External Fanfold Media Holder with Expansion Kit** Tailored for external media applications, ideal for heavy-duty external media use.		V
		**External Fanfold Media Holder with Quick Release Vehicle Mount Kit** Crafted for optimal external media management and quick-release features, it enhances overall usability.		V

Alpha-30L and Alpha-40L Specifications

Model	Alpha-30L	Alpha-40L
Resolution	8 dots/mm (203 dpi)	
Printing Method	Direct Thermal	
Max. Print Speed	Up to 127mm (5")/second	
Max. Print Width	72mm (2.83")	104mm (4.09")
Max. Print Length	2,794mm (110")	
Enclosure	Plastic with rubber over molded	
Physical Dimension	117mm (W) x 173mm (H) x 79mm (D) 4.61" (W) x 6.81" (H) x 3.11" (D)	160mm (W) x 191mm (H) x 79mm (D) 6.3" (W) x 7.52" (H) x 3.11" (D)
Weight (Including Battery)	745g (1.64lbs)	985g (2.17lbs)
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	
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, 3,030mAh Li-ion rechargeable smart battery	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 status), • 2.3" color LCD display, 320 x 240 pixels	
Sensors	• Reflective sensor • Transmissive sensor	• Peel 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	• 1D 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 • 2D barcode CODABLOCK F mode, GS1 DataBar, GS1 DataMatrix, Maxicode, AZTEC, PDF417, QR Code, Micro PDF417, TLC39	
Printer Language	TSPL-EZC (EPL2, ZPL2, CPCL), or ESC-POS	
Media Type	Die cut, black mark, receipt, fan-fold, linerless, continuous (outside wound)	
Media Width	25.4mm - 80mm (1" - 3.15") with liner	50.8mm - 112mm (2" - 4.4") with liner
Media Thickness	0.06mm - 0.16mm (2.36mil - 6.3mil)	
Media Height	• 12.7mm - 2,794mm (0.5" - 110") • 25.4mm - 152.4mm (1" - 6") for peeler mode	
Media Core Diameter	Standard: 12.7mm (0.5") Optional: • 19.1mm (0.75") • 25.4mm + 38.1mm (1" + 1.5")	
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	• Quick start guide • Belt clip	• Li-ion battery • Power adaptor
Limited Warranty	• Printer: 2 years • Print head: 25km (1 million inches) or 12 months which comes first • 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) • Linerless kit	
User Options	• Type C USB 2.0 cable • 0.75" media core adaptor • 1"+ 1.5" media core adaptor • Protective case with shoulder strap • Shoulder strap • Li-ion smart battery • 1-slot docking cradle • 4-slot docking cradle • 1-slot battery charger • 4-slot battery charger • 12-24V DC vehicle power adaptor • 12-60V DC vehicle power adaptor	• 12-60V DC vehicle open end power supply • 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 • External fanfold media holder with quick release vehicle mount kit



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Alpha-30LHC for Healthcare

Model	Alpha-30LHC
Resolution	8 dots/mm (203 dpi)
Printing Method	Direct Thermal
Max. Print Speed	Up to 127mm (5")/second
Max. Print Width	72mm (2.83")
Max. Print Length	2,794mm (110")
Enclosure	• Plastic with rubber over molded • Disinfectant-ready plastic, designed with an easy-to-clean surface and a sealed button interface • Antibacterial enclosure
Physical Dimension	117mm (W) x 173mm (H) x 79mm (D) 4.61" (W) x 6.81" (H) x 3.11" (D)
Weight (Including Battery)	745g (1.64lbs)
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
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, 3,030mAh 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 status), • 2.3" color LCD display, 320 x 240 pixels
Sensors	• Reflective sensor • Transmissive sensor • Peel 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	• 1D 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 • 2D barcode CODABLOCK F mode, GS1 DataBar, GS1 DataMatrix, Maxicode, AZTEC, PDF417, QR Code, Micro PDF417, TLC39
Printer Language	TSPL-EZC (EPL2, ZPL2, CPCL), or ESC-POS
Media Type	Die cut, black mark, receipt, fan-fold, linerless, continuous (outside wound)
Media Width	25.4mm - 80mm (1" - 3.15") with liner
Media Thickness	0.06mm - 0.16mm (2.36mil - 6.3mil)
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Environmental Concern	Comply with RoHS, WEEE, REACH, China RoHS
Accessories	• Quick start guide • Belt clip • Li-ion battery • IEC 60601-1 certified Power adaptor
Limited Warranty	• Printer: 2 years • Print head: 25km (1 million inches) or 12 months which comes first • 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) • Linerless kit
User Options	• Type C USB 2.0 cable • 0.75" media core adaptor • 1"+ 1.5" media core adaptor • Protective case with shoulder strap • Shoulder strap • Li-ion smart battery • 4-slot battery charger IEC 60601-1 certified Power adaptor • 12 - 24V DC vehicle power adaptor • 12 - 60V DC vehicle power adaptor • 12 - 60V DC vehicle open end power supply • 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 • External fanfold media holder with quick release vehicle mount kit



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