

# 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
Å	•	Shoulder Strap Designed for carrying the printer directly without a protective case.		V
4	7	Belt Clip Use the belt clip for a complete hands-free solution.		V
		<b>Li-ion Smart Battery</b> 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
17	The Fred	4-Slot Docking Cradle Easily charge multiple printers without removing the battery.		V
les .	hs hs	<b>1-Slot Battery Charger</b> 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
P	To the second	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
<b>57</b>	6	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)	Alpha Tot		
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)x173mm(H)x79mm(D) 4.61"(W)x6.81"(H)x3.11"(D)	160mm(W)x191mm(H)x79mm(D) 6.3"(W)x7.52"(H)x3.11"(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     Either one selected     Type C USB 2.0 + MFi Bluetooth 5.0 + Passive NFC tag			
	Type C USB 2.0 + 802.11a/b/g/n/ac with Bluetoot     Type C is for communication only  7 (1/D0 7 070) Abdition to the communication only  7 (1/D0 7 070) Abdition to the communication only  7 (1/D0 7 070) Abdition to the communication only			
Power	7.4V DC, 3,030mAh Li-ion rechargeable smart battery	7.4V DC, 6,200mAh Li-ion rechargeable smart battery		
Uperation Switch, Button	7 buttons (Power, Feed/Pause, Menu, Navigation keys)			
User Interface	<ul> <li>2 LED indicators (battery charging status, printer</li> <li>2.3" color LCD display, 320 x 240 pixels</li> </ul>			
Sensors	Reflective sensor     Transmissive sensor	<ul><li>Peel sensor</li><li>Head open sensor</li></ul>		
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	<ul> <li>1D barcode         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</li> <li>2D barcode         CODABLOCK F mode, GS1 DataBar, GS1 DataMatrix, Maxicode, AZTEC, PDF417, QR Code, Micro PDF417,         TLC39</li> </ul>			
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	1		
Accessories	Quick start guide     Belt clip	<ul><li>Li-ion battery</li><li>Power adaptor</li></ul>		
Limited Warranty	Prower adaptor 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  ""+1.5" 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 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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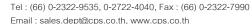
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#### Alpha-30LHC for Healthcare

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	<ul> <li>Plastic with rubber over molded</li> <li>Disinfectant-ready plastic, designed with an easy-to-clean surface and a sealed button interface</li> <li>Antibacterial enclosure</li> </ul>			
Physical Dimension	117mm(W)x173mm(H)x79mm(D) 4.61"(W)x6.81"(H)x3.11"(D)			
Weight (Including Battery)	7 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	<ul> <li>Either one selected</li> <li>Type C USB 2.0 + MFi Bluetooth 5.0 + Passive NFC tag</li> <li>Type C USB 2.0 + 802.11 a/b/g/n/ac with Bluetooth 5.0 + Passive NFC tag</li> <li>*Type C is for communication only</li> </ul>			
Power	7.4V DC, 3,030mAh Li-ion rechargeable smart battery			
Operation Switch, Button	7 buttons(Power, Feed/Pause, Menu, Navigation keys)			
User Interface	<ul> <li>2 LED indicators (battery charging status, printer status),</li> <li>2.3" color LCD display, 320 x 240 pixels</li> </ul>			
Sensors	<ul><li>Reflective sensor</li><li>Transmissive sensor</li><li>Head open sensor</li></ul>			
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     1D barcode			
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 Dbarcode 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)			
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")			
<b>Environment Condition</b>	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     Belt crip     Eic 60601–1 certified Power adaptor			
Limited Warranty	<ul> <li>Printer: 2 years</li> <li>Print head: 25km(1 million inches) or 12 months which comes first</li> <li>Platen: 50km(2 million inches) or 12 months which comes first</li> <li>Battery: 1 year</li> </ul>			
Factory Options	Media sensor position (default center, right, or left side)     Linerless kit			
User Options	<ul> <li>Type C USB 2.0 cable</li> <li>0.75" media core adaptor</li> <li>1"+1.5" media core adaptor</li> <li>Protective case with shoulder strap</li> <li>Shoulder strap</li> <li>Li-ion smart battery</li> <li>4-slot battery charger IEC 60601-1 certified</li> <li>Power adaptor</li> <li>12-48V DC power source with battery eliminator with power supply</li> <li>Wire to wire dummy battery pack</li> <li>Vehicle mount adaptor can be used with RAM® MOUNTS</li> <li>Quick release vehicle mount kit</li> <li>External fanfold media holder with expansion kit</li> <li>External fanfold media holder with quick release vehicle mount kit</li> </ul>			
	• 12 - 60V DC vehicle open end power supply			















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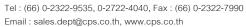
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