

# Alpha-30L/40L

## Mobile Label Printer

Visualize Mobile Device Management and Print Operations

### Media Handling

- Standard peeler module

### Media

- Width: Alpha-30L 25.4~ 80mm; Alpha-40L 50.8 ~ 112mm
- Capacity: max. OD 67mm
- Type: die cut, black mark, receipt, fan-fold, linerless, continuous (outside wound)

### Durable Design

- IP 54
- MIL-STD-810G drop & vibration
- 1.8m drop and 500 tumbles at 1m
- 2.5m drop with case

### Non-Slip Design

- Streamlined and rubber over molded design for comfortable handhold experience

### 2.3" LCD Color Display

- Intuitive icon menu
- Seven-key control panel for easy navigation



### Smart Battery

- Capacity: Alpha-30L 3,030mAh; Alpha-40L 6,200mAh
- Battery Management System (BMS) to monitor battery health and capacity



### Media Sensor

- Gap sensor
- Black mark sensor on printing surface & backside

### Seamless Connectivity

- NFC tap-to-pair for Bluetooth
- 802.11 a/b/g/n/ac Wi-Fi with Bluetooth 4.2
- Certified MFi Bluetooth® 5.0

### Printhead

- Self-Diagnostic TPH Care mechanism detects bad dot for high-quality printouts

### Standard Model

Alpha-30L (3")

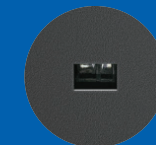
Alpha-40L (4")



### Media Support



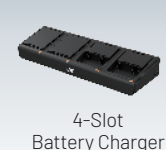
Linerless kit\*



Black mark sensor on printing surface & backside

\* Optional feature, please contact your local sales representative

### Full Line of Accessories

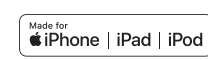


# Alpha-30L/40L | Datasheet

Model	Alpha-30L	Alpha-40L
Resolution	8 dots/mm (203 dpi)	
Printing Method	Direct Thermal	
Max. Print Speed	5 ips	
Max. Print Width	72mm (2.83")	104mm (4.09")
Max. Print Length	2,794mm (110")	
Enclosure	Plastic with rubber over molded	
Physical Dimension (W x H x D)	117mm x 173mm x 79mm (4.60" x 6.81" x 3.11")	160mm x 191mm x 79mm (6.30" x 7.25" x 3.11")
Weight (Including Battery)	0.745 kg (1.64 lbs)	0.985 kg (2.17 lbs)
Drop Specification	1.8 m (6 ft), with protective case can be 2.5 m (8.2 ft)	
IP Rating	IP54 (w/o 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 Wi-Fi with Bluetooth 4.2 + 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	
Bar Code	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	25.4 ~ 80mm with liner (1" ~ 3.15")	50.8 ~ 112mm with liner (2" ~ 4.4")
Media Thickness	0.06 ~ 0.16mm	
Media Height	12.7 ~ 2,794mm (0.5" ~ 110") 25.4 ~ 152.4mm (1" ~ 6") for peeler mode	
Media Core Diameter	12.7mm (0.5"), standard 19.1mm (0.75"), with 0.75" ID adaptor	
Environment Condition	Operation: -20 ~ 50 °C (-4 ~ 122 °F), 10 ~ 90% non-condensing Storage: -30 ~ 70 °C (-22 ~ 158 °F), 10 ~ 90% non-condensing Charging: 0 ~ 40 °C (32 ~ 104 °F), 10 ~ 90% non-condensing	
Accessories	Quick start guide Li-ion battery	Belt clip Power adaptor
Limited Warranty	Printer: 2 years Battery: 1 year	Print head: 25 km (1 million inches) or 12 months which comes first Platen: 50 km (2 million inches) or 12 months which comes first
Factory Options	Media sensor position (default center, right, or left side) Linerless kit	
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 docking cradle	1-slot battery charger 4-slot battery charger 12-24V DC Vehicle Power Adaptor 12-60V DC Vehicle Power Adaptor 12-48V DC power source with battery eliminator Vehicle mount adapter can be used with RAM® MOUNTS

# Compatible Accessories

Description	Compatible Models					
	A40L/RFID	A30L	A30R Premium	A30R Basic	TDM-30	TDM-20
Shoulder Strap	V	V				
Belt Clip	V	V				
Li-ion Smart Battery 3030mAh		V	V	V	V	
1-Slot Docking Cradle	V	V	V			
4-Slot Docking Cradle	V	V	V			
1-Slot Battery Charger	V	V	V	V	V	
4-Slot Battery Charger	V	V	V	V	V	
12-24V DC Vehicle Power Adaptor	V	V	V	V	V	V
12-60V DC Vehicle Power Adaptor	V	V	V	V	V	V
Battery Eliminator (3 inch)		V	V	V	V	
USB Cable	V	V	V	V		



## Americas

3040 Saturn Street, Suite 200  
Brea, CA 92821 U.S.A.  
Office: +1 657 258 0808

## Global Headquarters

9F, No. 95, Minquan Road, Xindian District  
New Taipei City, Taiwan 231  
Office: +886 2 2218 6789

## EMEA

Georg-Wimmer-Ring 8b  
85604 Zorneding, Germany  
Office: +49 8106 37979 000

©2022 TSC Auto ID Technology Co., Ltd. All Rights Reserved.

TSC Printronix Auto ID [tscprinters.com](http://tscprinters.com)