

# TSC

The Smarter Choice.

CELEBRATING 20 YEARS



**ALPHA-4L** – Portable Direct Thermal Label Printer

## RUGGED AND RELIABLE MOBILE PRINTING DELIVERS YOUR LABELS WHEREVER YOU NEED THEM



### KEY FEATURES

- TSC Designed & Manufactured
- IP54-rated protective case to resist dust and water
- Plastic design with rubber over-mold construction that withstands 1.5 m (5 ft) drop and endures 1.8 m (6 ft) drop with its protective case
- Ready for EPL, ZPL, or CPCL environments, TSC Droid APP & SDK, WinCE Quick-link tool & SDK, iOS SDK
- Wired & wireless communication interfaces: USB 2.0, RS-232, Bluetooth, and 802.11 b/g/n
- High capacity 5800 mAh rechargeable Li-ion batteries
- Large paper capacity to reduce the frequency of changing paper roll
- Linerless ready
- High-speed processor and extensive memory for fast print speeds of up to 102 mm (4") per second
- 2-Year Warranty is best in the industry

### APPLICATIONS

- Portable point of sale
- Retail item marking, markdowns, shelf labeling & shelf talkers
- Labels for shipping & receiving
- Inventory control
- Cross-docking
- Pick, pack & apply operations
- Print pick tickets
- Logistics receipts

# ALPHA-4L – Portable Direct Thermal Label Printer

PRINTER MODEL	Alpha-4L
Resolution	8 dots/mm (203 DPI)
Printing method	Direct Thermal
Max. print speed	102 mm (4")/second 2, 3 ips for peeler mode
Max. print width	104 mm (4.09")
Max. print length	2,286mm (90")
Enclosure	Plastic with rubber over molded
Physical dimension	160 mm (W) x 191.6 mm (H) x 79 mm (D) 6.30" (W) x 7.54" (H) x 3.11" (D)
Weight (including battery)	1.1 kg (2.43 lbs)
Drop specification	1.5 m (5 ft) 1.8 m (6 ft) (w/ IP54-rated protective case)
IP rating	IP54 (w/case)
Max. roll capacity	67.3 mm (2.65") OD
Processor	32-bit RISC CPU
Memory	<ul style="list-style-type: none"> <li>• 16 MB Flash memory</li> <li>• 32 MB SDRAM</li> <li>• microSD card reader for Flash memory expansion, up to 4 GB</li> </ul>
Interface	<ul style="list-style-type: none"> <li>• USB 2.0</li> <li>• Bluetooth</li> <li>• 802.11 b/g/n Wireless (factory option)</li> <li>• RS-232 (user option)</li> </ul>
Power	7.2V DC, 5800 mAh Li-ion rechargeable battery
Operation switch, button	<ul style="list-style-type: none"> <li>• 2 buttons (Power, Feed) &amp; 6 LED indicators (Printer, Battery, Wireless status) - standard</li> <li>• 4 buttons (Power, Feed, Menu, Info) &amp; 2 LED indicators (Power, Error) &amp; 2" LCD display, 128 x 64 pixel w/backlight - factory option</li> </ul>
Sensors	<ul style="list-style-type: none"> <li>• Black mark reflective sensor</li> <li>• Transmissive gap sensor</li> <li>• Peel sensor</li> <li>• Head open sensor</li> </ul>
Real time clock	Standard
Internal fonts	<ul style="list-style-type: none"> <li>• 8 alpha-numeric bitmap fonts</li> <li>• Monotype Imaging® true type font engine with one CG Triumvirate Bold Condensed scalable font</li> </ul>
Bar code	<ul style="list-style-type: none"> <li>• 1D bar code Code 11, Code 39, Code 93, Code128UCC, Code128 subsets A.B.C, Codabar, Interleave 2 of 5, EAN-8, EAN-13, EAN14, EAN128, UPC-A, UPC-E, EAN and UPC 2(5) digits, MSI, PLESSEY, POSTNET, China Post, ITF14, TELPEN, PLANET, Deutsche Post Identcode, Deutsche Post Leitcode, LOGMARS</li> <li>• 2D bar code Code 49, PDF-417, MicroPDF417, Maxicode, DataMatrix, QR code, Aztec, CODABLOCK F mode, GS1 Databar</li> </ul>
Printer language	TSPL-EZ™ (Compatible to EPL, ZPL, ZPL II) or CPCL emulation
Media type	Die cut, black mark, receipt, fan-fold, linerless, continuous (outside wound)
Media width	50.8 ~ 112 mm (2.0" ~ 4.4")
Media thickness	0.055 ~ 0.165 mm (2.2 ~ 6.5 mil)
Media core diameter	12.7 ~ 25.4 mm (0.5" ~ 1")
Label length	12.7 ~ 2,286 mm (0.5" ~ 90") 25.4 ~ 152.4 mm (1" ~ 6") for peeler mode
Environment condition	Operation: -10 ~ 50 °C (14 ~ 122 °F), 10 ~ 90% non-condensing Storage: -40 ~ 60 °C (-40 ~ 140 °F), 10 ~ 90% non-condensing
Safety regulation	FCC, CE, CB, CCC, TUV, SRRC
Environmental concern	Comply with RoHS, WEEE
Accessories	<ul style="list-style-type: none"> <li>• Windows labeling software CD disk</li> <li>• Quick start guide</li> <li>• Belt Clip</li> <li>• Li-ion battery</li> <li>• Power adapter</li> </ul> <p>*SDK for iOS (iPhone &amp; iPad), Android 2.2 or higher, WinCE/WM 6.0/6.1pro can be downloaded from website.</p>
Limited warranty	<ul style="list-style-type: none"> <li>• Printer: 2 years</li> <li>• Print head: 25 km (1 million inches) or 12 months which comes first</li> <li>• Platen: 50 km (2 million inches) or 12 months which comes first</li> </ul>
Factory options	<ul style="list-style-type: none"> <li>• 802.11 b/g/n Wireless network</li> <li>• 2" LCD display, 128 x 64 pixel w/white LED backlight</li> <li>• Black mark reflective sensor position (default center, right, or left side)</li> <li>• Linerless kit</li> <li>• USB to RS-232 converter cable</li> <li>• USB cable</li> <li>• Li-ion battery</li> </ul>
User options	<ul style="list-style-type: none"> <li>• IP54-rated protective case</li> <li>• Shoulder strap</li> <li>• Charging station 1 cell or 4 cells (with changeable power connector)</li> <li>• Vehicle power adapter</li> </ul>



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