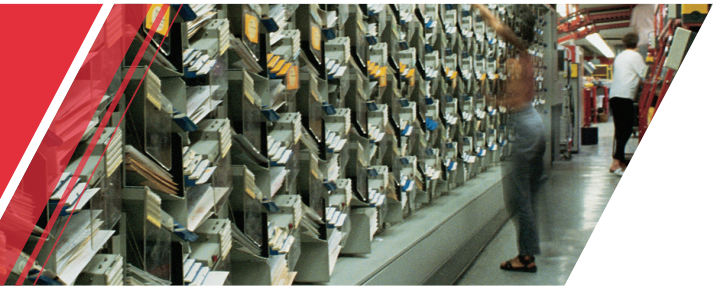
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**ALPHA-4L** – Portable Direct Thermal Label Printer

# 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<br>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)<br>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)<br>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 | • 16 MB Flash memory<br>• 32 MB SDRAM<br>• microSD card reader for Flash memory expansion, up to 4 GB |
| Interface | • USB 2.0<br>• Bluetooth<br>• 802.11 b/g/n Wireless (factory option)<br>• RS-232 (user option) |
| Power | 7.2V DC, 5800 mAh Li-ion rechargeable battery |
| Operation switch, button | • 2 buttons (Power, Feed) & 6 LED indicators (Printer, Battery, Wireless status) - standard<br>• 4 buttons (Power, Feed, Menu, Info) & 2 LED indicators (Power, Error) & 2" LCD display, 128 x 64 pixel w/backlight - factory option |
| Sensors | • Black mark reflective sensor<br>• Transmissive gap sensor<br>• Peel sensor<br>• Head open sensor |
| Real time clock | Standard |
| Internal fonts | • 8 alpha-numeric bitmap fonts<br>• Monotype Imaging® true type font engine with one CG Triumvirate Bold Condensed scalable font |
| Bar code | • 1D bar code<br>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<br>• 2D bar code<br>Code 49, PDF-417, MicroPDF417, Maxicode, DataMatrix, QR code, Aztec, CODABLOCK F mode, GS1 Databar |
| 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")<br>25.4 ~ 152.4 mm (1" ~ 6") for peeler mode |
| Environment condition | Operation: -10 ~ 50 °C (14 ~ 122 °F), 10 ~ 90% non-condensing<br>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 | • Windows labeling software CD disk<br>• Quick start guide<br>• Belt Clip<br>• Li-ion battery<br>• Power adapter |
| Limited warranty | • Printer: 2 years<br>• Print head: 25 km (1 million inches) or 12 months which comes first<br>• Platen: 50 km (2 million inches) or 12 months which comes first |
| Factory options | • 802.11 b/g/n Wireless network<br>• 2" LCD display, 128 x 64 pixel w/white LED backlight<br>• Black mark reflective sensor position (default center, right, or left side)<br>• Linerless kit |
| User options | • USB to RS-232 converter cable<br>• USB cable<br>• Li-ion battery<br>• IP54-rated protective case<br>• Shoulder strap<br>• Charging station 1 cell or 4 cells (with changeable power connector)<br>• Vehicle power adapter |



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**CORPORATE HEADQUARTERS**
**TSC Auto ID Technology Co., Ltd.**
Tel: +886 2 2218 6789
E-mail: printer_sales@tscprinters.com

**LI ZE PLANT**
**TSC Auto ID Technology Co., Ltd.**
Tel: +886 3 990 6677
E-mail: printer_sales@tscprinters.com

**AMERICAS**
**TSC Auto ID Technology America Inc.**
**Corporate Office**
Tel: +1 909 525 9779
E-mail: sales@tscprinters.com

**Orlando Office**
Tel: +1 407 704 8918
E-mail: sales@tscprinters.com

**CANADA**
**TSC Auto ID Technology America Inc.**
Tel: +1 909 525 9779
E-mail: sales@tscprinters.com

**MEXICO**
**TSC Mexico Representative Office**
Tel: +52 (33) 3836 6682
E-mail: sales@idc-componentes.com

**BRAZIL**
**TSC Brazil Representative Office**
Tel: +55 (11) 9597 8098
E-mail: sales@tscprinters.com

**EMEA**
**TSC Auto ID Technology EMEA GmbH**
Tel: +49 (0) 8106 37979 00
E-mail: info@tsceu.com

**RUSSIA**
**TSC Auto ID Technology EMEA GmbH**
Tel: +7 915 422 8889
E-mail: info@tsceu.com

**MIDDLE EAST**
**TSC Auto ID Technology ME Ltd, FZE**
Tel: +971 4 2533 069
E-mail: info@tscmea.com

**ASIA PACIFIC**
**TSC Auto ID Technology Co., Ltd.**
Tel: +886 2 2218 6789
E-mail: printer_sales@tscprinters.com

**CHINA**
**Tianjin TSC Auto ID Technology Co., Ltd.**
Tel: +86 22 5981 6661
E-mail: sale@tscprinters.com.cn



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