

**TSC**  
The Smarter Choice.

CELEBRATING 20 YEARS



**ALPHA 3R** – Portable Direct Thermal Receipt Printer

## SIMPLIFY YOUR EVERY DAY MOBILE RECEIPT PRINTING NEEDS



### KEY FEATURES

- TSC Designed & Manufactured
- IP54-rated environmental case to resist dust and water
- Double-wall plastic design with rubber over-mold construction that withstands 1.5 m (5 ft) drop
- Wired & wireless communication interfaces: USB 2.0, RS-232, Bluetooth, and 802.11 b/g/n
- High capacity 2500 mAh rechargeable Li-ion batteries
- Large paper capacity to reduce the frequency of changing paper roll
- High-speed processor and extensive memory for fast print speeds of up to 100 mm (4") per second
- Lasts more than 12 hours of printing receipts on a single battery charge
- Supports TSPL-EZ (EPL2 and ZPL emulations) plus CPCL emulation

### APPLICATIONS

- Direct Store Deliveries (DSD)
- Field Repair/Installation
- Mobile Point-of-Sale
- Parking Citations
- Mobile Ticketing
- Onboard Transportation Ticketing
- Utility Billing/Meter Reading

## ALPHA-3R – Portable Direct Thermal Receipt Printer

PRINTER MODEL	Alpha-3R
Resolution	8 dots/mm (203 DPI)
Printing method	Direct Thermal
Max. print speed	102 mm (4")/second
Max. print width	72 mm (2.83")
Max. print length	2,286 mm (90")
Enclosure	Double-walled plastic with rubber over molded
Physical dimension	116 mm (W) x 148 mm (H) x 70 mm (D) 4.57"(W) x 5.83"(H) x 2.75"(D)
Weight (including battery)	0.55 kg (1.212 lbs)
Drop specification	1.5 m (5 ft)
IP rating	IP54 (w/case)
Max. roll capacity	57 mm (2.25") OD
Processor	32-bit RISC CPU
Memory	<ul style="list-style-type: none"> <li>• 4 MB Flash memory</li> <li>• 8 MB SDRAM</li> </ul>
Interface	<ul style="list-style-type: none"> <li>• USB 2.0</li> <li>• 802.11 b/g/n Wireless (factory option)</li> <li>• Bluetooth (factory option)</li> <li>• RS-232 (user option)</li> </ul>
Power	Two-cell, 7.4V DC, 2500 mAh Li-ion rechargeable battery
Operation switch, button	<ul style="list-style-type: none"> <li>• 3 buttons (On/off, feed, and cover-open)</li> <li>• 2 color LED for printer status, 3 LEDs for battery status</li> </ul>
Sensors	<ul style="list-style-type: none"> <li>• Reflective sensor</li> <li>• Head open sensor</li> </ul>
Internal fonts	<ul style="list-style-type: none"> <li>• 8 alpha-numeric bitmap fonts</li> <li>• One Monotype Imaging CG Triumvirate Bold Condensed scalable font</li> </ul>
Bar code	<ul style="list-style-type: none"> <li>• 1D bar code Code 39, Code 93, Code128UCC, Code128 subsets A.B.C, Codabar, Interleave 2 of 5, EAN-8, EAN-13, EAN-128, UPC-A, UPC-E, EAN and UPC 2(5) digits add-on, MSI, PLESSEY, POSTNET, China POST, GS1 Data bar</li> <li>• 2D bar code PDF-417, Maxicode, DataMatrix, QR code, Aztec</li> </ul>
Printer language	TSPL-EZ (EPL2, ZPL2) & CPCL emulation
Media type	Receipt paper & Bline receipt paper (Black mark in printing side)
Max. media width	80 mm (3.15")
Media thickness	0.0508 ~ 0.1016 mm (2 ~ 4 mil)
Media core diameter	10.2 ~ 19 mm (0.4" ~ 0.75")
Environment condition	Operation: -10 ~ 50 °C (32 ~ 104 °F), 10 ~ 90% non-condensing Storage: -40 ~ 60 °C (-40 ~ 140 °F), 10 ~ 93% non-condensing
Safety regulation	FCC, CE, CB, CCC
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>
Factory options	<ul style="list-style-type: none"> <li>• 802.11 b/g/n Wireless Network</li> <li>• Bluetooth module</li> </ul>
User options	<ul style="list-style-type: none"> <li>• RS-232 cable</li> <li>• USB cable</li> <li>• Li-ion battery</li> <li>• Charge station 1 cell (with changeable power connector)</li> <li>• Vehicle power adapter</li> <li>• IP54-rated environmental case with shoulder strap</li> </ul>

