

Alpha-2R

Click here for more information!
IPSi INTEGRATED
PRODUCTIVITY
SYSTEMS
(844) 477-4911 | www.ipsiscan.com



Portable Direct Thermal Printer

Smallest Most Affordable Mobile Printer

The Alpha-2R is a comfortable, lightweight, and affordable mobile receipt printer capable of working with any mobile printing application, providing quick and simple receipts or tickets.

The mobile printer can be worn comfortably throughout a full shift without interfering with the user's tasks. It is built for high durability and performance, equipped with essential features, and offers a selection of compatible accessories.

Key Features

- IP54-rated protective case to resist the dust and water
- Plastic design construction that withstands 1.5m (5ft) drop
- Wired & wireless communication interfaces: USB 2.0, RS-232, MFi Bluetooth 5.0, NFC and 802.11 a/b/g/n
- Wi-Fi Certified™
- High capacity 1620mAh 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 102mm (4") per second
- Lasts more than 17 hours of printing receipts on a single battery charge
- Supports TSPL-EZ (EPL2 and ZPL emulations), ESC-POS, CPCL emulation
- 2-year standard warranty
- ENERGY STAR® qualified

Applications

Warehouse & Logistics

- Direct Store Deliveries (DSD)
- Proof of Delivery and Pickup
- Fleet Management

Retail

- Field Sales/Repairs
- Mobile Point-of-Sale

Transportation

- Onboard Ticketing

Entertainment & Hospitality

- Mobile Ticketing
- Table Side Ordering

Public Utilities

- Utility Billing/Meter Reading
- Parking Citations



Alpha-2R Accessories

Alpha-2R	Description	Factory Option	User Option
	IP54-Rated Protective Case with Shoulder Strap With the protective case and shoulder strap, the printer can be worn comfortably for a full shift, without interfering with the user's tasks. It is also IP54 tested, and resistant to dust and water.		V
	1-Slot Battery Charger 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
	Li-ion Battery Print receipts for more than 17 hours on a single battery charge.		V
	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
	Linerless Kit The linerless kit suits linerless printing needs.	V	
	Media Spacer Kit The media spacer kit is able to support 1-inch or 2-inch media width applications.		V

Alpha-2R Specifications

Model	Alpha-2R Black	Alpha-2R White
Resolution	8 dots/mm (203 dpi)	
Printing Method	Direct Thermal	
Max. Print Speed	Up to 102mm(4")/second	
Max. Print Width	48mm (1.89")	
Max. Print Length	2,286mm (90")	
Enclosure	Plastic	
Physical Dimension	89.3mm(W)x134.5mm(H)x56.5mm(D) 3.52"(W)x5.3"(H)x2.22"(D)	
Weight (Including Battery)	350g (0.77lbs)	
Drop Specification	1.5m (5ft), with IP54 case can be 2m (6.5ft)	
IP Rating	IP42 (without case), IP54 (with case)	
Max. Roll Capacity	50mm (2") OD	
Processor	32-bit RISC CPU	
Memory	128 MB Flash memory 64 MB SDRAM	
Interface	- USB 2.0 802.11 a/b/g/n wireless (factory option) - MFi Bluetooth 5.0 (factory option) - NFC (factory option) - RS-232 (user option)	
Power	Two-cell, 7.4V DC, 1620mAh Li-ion rechargeable battery	
Operation Switch, Button	3 buttons (On/off, feed, and cover-open) 2 color LED for printer status, 3 LEDs for battery status	
Sensors	- Reflective sensor - Head open sensor	
Internal Fonts	8 alpha-numeric bitmap fonts - One Monotype Imaging® CG Triumvirate Bold Condensed scalable font	
Barcode	1D barcode 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 2D barcode PDF-417, Maxicode, DataMatrix, QR code, Aztec	
Printer Language	TSPL-EZ (EPL2, ZPL2), ESC-POS or CPCL emulation	
Media Type	Receipt paper, bline receipt paper (black mark in printing side) & selected label	
Media Width	Max. 58mm (2.28") *with adaptor: 50.8mm (2") and 25.4mm (1") (user option)	
Media Thickness	Receipt: 0.05 - 0.10mm (2 - 4 mil) Label: Up to 0.14mm (5.5 mil)	
Media Height	Label: Min. 25.4mm (1")	
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	
Environmental Concern	Comply with RoHS, WEEE, REACH, China RoHS	
Accessories	- Quick start guide - Belt clip - Li-ion battery - Power adaptor	
Limited Warranty	- 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*	
Factory Options	802.11 a/b/g/n wireless network - MFi Bluetooth 5.0 - Linerless kit - NFC	
User Options	- Mini type USB 2.0 - USB to RS-232 converter cable - Li-ion battery 1-slot battery charger 4-slot battery charger 12-24V DC vehicle power adaptor 12-60V DC vehicle power adaptor 12-60V DC vehicle open end power adaptor - IP54-rated protective case with shoulder strap - Media spacer kit	



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

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

AMERICAS
TSC Auto ID Technology America Inc.
Tel: +1 657 258 0808
E-mail: americas_sales@tscprinters.com

MEXICO
TSC Mexico Representative Office
Tel: +1 52 (33) 3673 1406
E-mail: americas_sales@tscprinters.com

BRAZIL
TSC Brazil Representative Office
Tel: +55 (11) 3554 7225
E-mail: americas_sales@tscprinters.com

EMEA
TSC Auto ID Technology EMEA GmbH
Tel: +49 (0) 8106 37979 000
E-mail: emea_sales@tscprinters.com

RUSSIA
TSC Auto ID Technology EMEA GmbH
Tel: +7 495 646 3538
E-mail: emea_sales@tscprinters.com

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

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

INDIA
TSC India Representative Office
Tel: +91 2249 679 315
E-mail: apac_sales@tscprinters.com

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

KOREA
TSC Korea Representative Office
Tel: +82 2 852 3322
E-mail: apac_sales@tscprinters.com



TSC® is a trademark of TSC Auto ID Technology Co., Ltd.
TSC Auto ID Technology Co., Ltd. is an ISO 9001/14001 registered company.
© 2025 TSC Auto ID Technology Co., Ltd.
Product models and Specifications are subject to change without notice.
Contact your TSC sales representative for specific information.
20250213

www.tscprinters.com