

TSC Alpha-40L vs. Zebra ZQ521 Comparison

The TSC Alpha-40L 4" mobile printer is TSC's best ever mobile label printer. The Alpha-40L has all the features you need in a rugged portable printer including SOTI Connect compatibility, smart battery technology, printhead quality monitoring plus the communications packages you need. Includes TSC standard 2 year warranty.

Model	TSC Alpha-30L	Zebra ZQ521
Max Media Width	4.4" (112mm)	4.45" (113mm)
Max Print Width	4" (104mm)	4" (104mm)
Outer Core Diameter	2.64" (67 mm) OD	2.25" (57mm) OD
Inner Core Diameter	0.5" (12.7mm) , 0.75" (19.1mm) with adaptor	0.75" (19.05mm)
Labels	High Volume	Medium Volume
Linerless Labels Option	Yes	Yes
Receipts	High Volume	High Volume
Print Speed (Up to)	5 ips (127 mm per second)	5 ips (127 mm per second)
Quantity Per Roll Specifications		
6" receipts (2.3 mil)	295	208
6" linerless labels (4.2mil)	161	114
6" lined labels (6.5 mil)	106	74
Weight (with battery)	2.17 lbs	1.72 lbs
Battery	6,200 mAh	3250 mAh
Sensors	Reflective sensor, Transmissive sensor, Peel sensor, Head open sensor	Mark, Gap, Media Out, Media Door Open
Indicators	2.3" color LCD display, 320 x 240 pixels	LCD: 240 x 42 dots
Peeler	Yes	No
Drop Spec (to concrete)	6 ft (1.8m) with protective case can be 8.2ft (2.5m)	6.6ft (2m)
IP Rating	IP54 (w/o case, paper path is excluded)	IP54
Operating Temperature	-4°F to 122°F (-20°C to 50 °C) 10 to 90% non-condensing	-4°F to 131°F (-20°C to 55°C)
Storage Temperature	-22°F to 158 °F (-30°C to 70°C) 10 to 90% non-condensing	-22°F to 151°F (-30°C to 66°C)
Bluetooth Capability	MF1 Bluetooth 5.0 + Passive NFC tag	4.1
WLAN Capability	802.11 a/b/g/n/ac Wi-Fi with Bluetooth 4.2 + Passive NFC tag	802.11 AC 2.4 & 5.0 GHz
WiFi Certified	✓	✓
Dual Radio (BT + LAN)	✓	✓
MF1 Certified	✓	✓
Wired Capabilities	USB-C (communications only)	USB
Programming Languages	TSPL-EZC (EPL2, ZPL2, CPCL), or ESC-POS	CPCL, ZPL
Magnetic Stripe Reader	No	Optional
Dual Tear Bar	✓	✓
RFID - Option	Planned	✓
Warranty		
Starting List Price		

Alpha-40L Features



Sophisticated TSC Sense Care

- Monitor Print Head health
- Monitor Smart Battery Status

Seamless Mobility Communication

- MF1 Bluetooth 5.0 supports both Apple and Android devices
- The dual band Wi-Fi features fast roaming to eliminate communications interruptions.

Enterprise Mobility Management

- TSC supports Enterprise Mobility Management via SOTI Connect
- Ships with free PC-based TSC Console for easy printer management.

Comprehensive Collection of Accessories

- forklift and vehicle accessory solution
- vehicle mount adaptors
- Works with RAM mount components

Industry-specific Durability Standards

- Built to withstand a drop test of 1.8 m (6 ft) without protective case, 2 m (6.6 ft) with protective case
- MIL-STD-810G military standard for drop test.
- IP54 for dust and water resistance with the optional protective case.

Integrated SW Pack

- TSC offers an advanced SW pack including practical solutions to effectively support Alpha-30L & Alpha-40L for customized label creation from different platforms.
- Newly introduced iOS & Android APP
 - OPOS drivers for POS application
 - Compatible with CPCL and ESC-POS printer languages