

Mobile Computer











Wi-Fi



Bluetooth



1D Barcode









This device is specialized for cold-chain warehousing, is an industrial-grade and smart handheld terminal with high performance. It could work normally and decode efficiently in low temperature and high relative humidity environment of -30°C/-22°F by equippments with 6400 mAh large-capacity battery of low temperature resistance and professional anti-condensation screen. Meanwhile it supports optional UHF, NFC and other functions, and features dual-band Wifi antenna intently optimizing for indoor applications and scenarios. All of these characteristics make this model perfect to be deployed in in/out storage, inventory and sorting for cold-chain environment and significantly improve work efficiency.









Physical Characteristics			
Dimensions	202.0 x 72.5 x 32.0 mm / 7.95 x 2.85 x 1.26 in.		
Weight	370g / 13.05oz. (SE4710); 404g / 14.25oz. (SE4850)		
Keypad	Main keyboard (optional): 27 keys / 37 keys / 47 keys; Side keys: 2 scan keys + 2 volume keys + 1 user-defined key		
Battery	6400 mAh removable main battery, 5200 mAh optional pistol battery, support QC3.0 and RTC; Built in 100mAh backup battery, supporting battery hot swap, improving reliability and ensuring user data security		
	Continuous use: 5.5 hours (continuous scan at 500ms interval at -30 $^{\circ}$ C / -22 $^{\circ}\text{F})$		
Display	$\mbox{4-inch}$ industrial-grade low-temperature-resistant capacitive touch screen, gloves and wet hands supported		
. ,	4-inch high definition display, 800*480		
Touch Panel	Multi-touch panel, gloves and wet hands supported		
Sensor	Accelerometer sensor, light sensor, proximity sensor, gravity sensor		
Notification	Sound, LED indicator, vibrator		
Audio	2 microphones, 1 for noise cancellation; 2 speakers; receiver		
Card slot	1 slot for SIM card, 1 slot for TF card		
Interfaces	USB Type-C, USB 3.1, OTG, extended thimble		
Performance	e		
CPU	Octa-core, 2.0 GHz		
RAM+ROM	3GB + 32GB / 4GB + 64GB		
Expansion	Supports up to 256GB Micro SD (TF) card		
Developing Environment			
Operating System	Android 11/13; GMS, 90-day security updates, Android Enterprise Recommended, Zero-Touch, FOTA, Soti MobiControl, SafeUEM supported. Committed support for a future upgrade to Android 18 pending feasibility		
SDK	Software Development Kit		
Language	Java		
Tool	Eclipse / Android Studio		
User Enviro	nment		
Operating Temp.	-22°F to 122°F / -30°C to 50°C		
Storage Temp.	-40°F to 158°F / -40°C to 70°C		
Humidity	5% RH to 95% RH (non condensing)		
Drop Specification	Multiple 1.8 m / 5.9 ft. drops (at least 20 times) to the concrete across the operating temperature range		
Tumble Specification	$1000 \times 0.5 \text{ m} / 1.64 \text{ ft. falls at room temperature}$		
Sealing	IP65 per IEC sealing specifications		
ESD	±15 KV air discharge, ±8 KV conductive discharge		
Communication			
	Support 802.11 a/b/g/n/ac/ax-ready/d/e/h/i/k/r/v, 2.4G/5G dualband, IPV4, IPV6, 5G PA;		
	Fast roaming: PMKID caching, 802.11r, OKC		
WLAN	Operating Channels: 2.4G(channel 1 [~] 13), 5G(channel 36,40,44,48,52,56,60,64,100,104,108,112,116,120,		

Security and Encryption: WEP, WPA/WPA2-PSK(TKIP and AES), WAPI-PSK—EAP-TTLS, EAP-TLS, PEAP-MSCHAPv2, PEAP-LTS, PEAP-GTC, etc.

	2G: 850/900/1800/1900MHz	
	3G: CDMA EVDO: BC0	
WWAN (Europe, Asia)	WCDMA: 850/900/1900/2100MHz	
	TD-SCDMA: A/F(B34/B39)	
	4G: B1/B3/B5/B7/B8/B20/B38/B39/B40/B41	
	2G: 850/900/1800/1900MHz	
WWAN(America)	3G: 850/900/1900/2100MHz	
	4G: B2/B4/B5/B7/B12/B13/B17/B28A/B28B/B38	
Vo-LTE	Support Vo-LTE HD video voice call	
Bluetooth	Bluetooth 5.1	
GNSS	GPS/AGPS, GLONASS, BeiDou, Galileo, internal antenna	
Data Collection		

Camera
Rear Camera

NFC		
Frequency	13.56MHz	
Protocol	ISO14443A/B, ISO15693, NFC-IP1, NFC-IP2, etc.	
Chips	M1 card (S50, S70), CPU card, NFC tags, etc.	
Range	2-4cm	

Rear 13MP Autofocus with flash

UHF (Optional)

(- p	. (
Engine	Based on Impinj E710	
Frequency	865-868MHz / 920-925MHz / 902-928MHz	
Protocol	EPC C1 GEN2 / ISO18000-6C	
Antenna	Circular Polarized Antenna (4dBi)	
D	1W (30 dBm, +5 dBm to +30 dBm adjustable)	
Power	2W Optional (33 dBm, for Latin America, etc.)	
R/W range	Up to 15m (open outdoors, Impinj MR6 tag)	
Fastest Read Rate	1300+ tags/sec	
Communication Mode	Pin Connector	

^{*} Ranges and rates depend on tags and environment

Barcode Scanning (optional)

2D Scanner	Zebra: SE4710/SE4750SR/SE4750MR/SE4750DP/SE4850; Honeywell: N6603/EX30
1D Symbologies	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.
2D Symbologies	PDF417, MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QR code, Micro QR code, Aztec, MaxiCode; Postal Codes: US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal, Dutch Postal (KIX). etc.

Optional accessories(See details in Accessory Guide)

Separate handle with one button;

Handle + battery (handle battery 5200 mAh, one button);

UHF back clip + handle (5200 mAh, one button);

Wrist Strap; Charging Cradle