

SP100



- Rugged handheld computer with robust performance
- It supports 27 keys / 37 keys / 47 keys optional keypad
- Built with Android 9 / 11 OS and Qualcomm Octa-Core processor
- Abundant accessories like trigger handle, and features powerful removable battery.



The actual appearance is subject to the final configuration.

Specifications

MODEL	SP100	
Supported OS	Android 9	Qualcomm SnapdragonTM450 Octa-core, 1.8 GHz
	Android 11	Qualcomm SnapdragonTM662 Octa-core, 2.0 GHz
RAM	Capacity	3 GB + 32 GB / 4 GB + 64 GB
Storage	Expansion	Supports up to 128 GB Micro SD card
Developing Environment	Operating System	Android 9; GMS, 90-day security updates, Android Enterprise Recommended, Zero-Touch, FOTA, SafeUEM supported
		Android 11; GMS, 90-day security updates, Android Enterprise Recommended, Zero-Touch, FOTA, SafeUEM supported. Committed support for a future upgrade to Android 12, 13, and Android 14 pending feasibility
	SDK	Software Development Kit
	Language	Java
	Tool	Eclipse / Android Studio
Physical Characteristics	Keypad	Main keyboard (Optional) : 27 keys / 37 keys / 47 keys; Side keys: 2 scan keys + 2 volume keys + 1 user-defined key
	Battery	6700 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
		Standby: up to 680 hours (only main battery ; WiFi: up to 560h; 4G: up to 560h)
		Continuous use: over 12 hours (depending on user environment)
		Charging time: 3.5 hours (charge device by standard adaptor and USB cable)
	Display	4-inch high definition display, TN a-Si 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	

Communication	Vo-LTE	Support Vo-LTE HD video voice call
	Bluetooth	Android 9: Bluetooth 4.2/4.1+HS/4.0/3.0+HS/2.1+EDR
		Android 11: Bluetooth 5.1
	GNSS	GPS/AGPS, GLONASS, BeiDou, Galileo, internal antenna
	WLAN	Support 802.11 a/b/g/n/ac/ax-ready/d/e/h/i/k/r/v, 2.4G/5G dual-band, IPV4, IPV6, 5G PA;
		Fast roaming: PMKID caching, 802.11r, OKC
		Operating Channels: 2.4G(channel 1~13), 5G (channel 36,40,44,48,52,56,60,64,100,104,108,112,116,120, 124,128,132,136,140,144,149,153,157,161,165), Depends on local regulations
		Security and Encryption: WEP, WPA / WPA2-PSK(TKIP and AES), WAPI-PSK—EAP-TTLS, EAP-TLS, PEAP-MSCHAPv2, PEAP-LTS, PEAP-GTC, etc.
	WWAN (Europe, Asia)	2G: 850/900/1800/1900 MHz
		3G: CDMA EVDO: BC0
		WCDMA: 850/900/1900/2100 MHz
		TD-SCDMA: A/F(B34/B39)
4G: B1/B3/B5/B7/B8/B20/B38/B39/B40/B41		
WWAN(America)	2G: 850/900/1800/1900MHz	
	3G: 850/900/1900/2100MHz	
	4G: Android 9: B2/B4/B5/B7/B12/B17/B38 Android 11: B2/B4/B5/B7/B8/B12/B13/B17/B28A/B28B/B38	
I/O INTERFACE	USB	Android 9: USB Type-C, USB 3.0, OTG, extended thimble Android 11: USB Type-C, USB 3.1, OTG, extended thimble
	Card slot	1 slot for Micro SIM card, 1 slot for TF card
	Audio	2 microphones, 1 for noise cancellation; 2 speakers; receiver
Camera	Rear Camera	Rear 13 MP Autofocus with flash
NFC	Frequency	13.56 MHz
	Protocol	ISO14443A/B, ISO15693, NFC-IP1, NFC-IP2, etc.
	Chips	M1 card (S50, S70), CPU card, NFC tags, etc.
	Range	2-4 cm
UHF (Optional)	Engine	Based on Impinj E710 / R2000
	Frequency	865-868 MHz / 920-925 MHz / 902-928 MHz
	Protocol	EPC C1 GEN2 / ISO18000-6C
	Antenna	Circular Polarized Antenna (4 dBi)
	Power	1W (30 dBm, +5 dBm to +30 dBm adjustable)
		2W Optional (33 dBm, for Latin America, etc.)
	R/W range	Up to 15 m (open outdoors, Impinj MR6 tag)
	Fastest Read Rate	900+ tags/sec
Communication Mode	Pin Connector	
Barcode Scanning (optional)	2D Scanner	Zebra: SE4710/SE4750SR/SE4750MR/SE4750DP/SE4850; Honeywell: N6603/EX30
	1D Symbolologies	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.
	2D Symbolologies	PPDF417, 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.

The actual appearance and dimensions are subject to the final configuration

Environment	Operating Temperature	-4°F to 122°F / -20°C to 50°C
	Storage Temperature	-40°F to 158°F / -40°C to 70°C
	Relative 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 x 0.5 m / 1.64 ft. falls at room temperature
	Sealing	IP65 per IEC sealing specifications
	ESD	±15 KV air discharge, ±8 KV conductive discharge
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) / 26 .05oz. / 738g (SE4850, UHF, pistol battery)
Regulation	EMC	CCC / CE / FCC / EMC / CB / ROHS

Optional accessories

UHF



Cradle



Wrist Strap



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Processors Info & Available List

CPU	Total Cores	Total Threads	Max Turbo Frequency	Processor Base Frequency	Cache	Bus Speed	TDP	Memory Types
Qualcomm SnapdragonTM450	8	8	-	1.8 GHz	-	-	-	LPDDR3
Qualcomm SnapdragonTM662	8	8	-	2.0 GHz	-	-	-	LPDDR3

Packing List

Default Items	Qty
SP100Unit	1

Optional accessories modules for unit

Optional Items	Max Qty	Description
Separate handle with one button	1	
Handle + battery (handle battery 5200 mAh, one button)	1	
UHF back clip + handle (5200 mAh, one button)	1	
Wrist Strap Charging Cradle	1	
UHF	1	
Barcode Scanning	1	

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