



New  
Generation  
Rugged  
Powerful  
& Durable



Android



4G



WiFi



Bluetooth



1D Barcode



2D Barcode



NFC



UHF



Camera



GPS

Pegasus AC7500 is a new-generation rugged handheld computer. Built with Android 9 / 11 and Qualcomm Octa-Core processor, it supports 27keys / 37keys / 47keys optional keypad, features 6700mAh removable battery and quick charge, and offers optional trigger handle with extended 5200mAh battery, as well as abundant accessories. And it allows optional barcode scanning, RFID, NFC, etc.. With robust data collection capability and high-powered dual-band WIFI, this mobile computer can perfectly fulfill applications in logistics, warehousing, manufacturing, retail, asset management etc..



## Physical Characteristics

<b>Dimensions</b>	202.0 x 72.5 x 32.0 mm / 7.95 x 2.85 x 1.26 in. ( Device Weight for Argentina, Uruguay, Bolivia, Ecuador market: 342~404g, including battery )
<b>Weight</b>	370g / 13.05oz. (SE4710) ; 404g / 14.25oz. (SE4850) / 26 .05oz. / 738g (SE4850, UHF, pistol battery)
<b>Keypad</b>	Main keyboard (Optional) : 27 keys / 37 keys / 47 keys; Side keys: 2 scan keys + 2 volume keys + 1 user-defined key
<b>Battery</b>	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)
<b>Display</b>	4-inch high definition display, TN α-Si 800*480
<b>Touch Panel</b>	Multi-touch panel, gloves and wet hands supported
<b>Sensor</b>	Accelerometer sensor, light sensor, proximity sensor, gravity sensor
<b>Notification</b>	Sound, LED indicator, vibrator
<b>Audio</b>	2 microphones, 1 for noise cancellation; 2 speakers; receiver
<b>Card slot</b>	1 slot for Micro SIM card, 1 slot for TF card
<b>Interfaces</b>	Android 9: USB Type-C, USB 3.0, OTG, extended thimble Android 11: USB Type-C, USB 3.1, OTG, extended thimble

## Performance

<b>CPU</b>	Android 9: Qualcomm Snapdragon™450 Octa-core, 1.8 GHz Android 11: Qualcomm Snapdragon™662 Octa-core, 2.0 GHz
<b>RAM+ROM</b>	3 GB + 32 GB / 4 GB + 64 GB
<b>Expansion</b>	Supports up to 128 GB Micro SD card

## Developing Environment

<b>Operating System</b>	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
<b>SDK</b>	Pegasus Software Development Kit
<b>Language</b>	Java
<b>Tool</b>	Eclipse / Android Studio

## User Environment

<b>Operating Temp.</b>	-4°F to 122°F / -20°C to 50°C
<b>Storage Temp.</b>	-40°F to 158°F / -40°C to 70°C
<b>Humidity</b>	5% RH to 95% RH (non condensing)
<b>Drop Specification</b>	Multiple 1.8 m / 5.9 ft. drops (at least 20 times) to the concrete across the operating temperature range
<b>Tumble Specification</b>	1000 x 0.5 m / 1.64 ft. falls at room temperature
<b>Sealing</b>	IP65 per IEC sealing specifications
<b>ESD</b>	±15 KV air discharge, ±8 KV conductive discharge

## Communication

<b>Vo-LTE</b>	Support Vo-LTE HD video voice call
<b>Bluetooth</b>	Android 9: Bluetooth 4.2/4.1+HS/4.0/3.0+HS/2.1+EDR Android 11: Bluetooth 5.1
<b>GNSS</b>	GPS/AGPS, GLONASS, BeiDou, Galileo, internal antenna

	Support 802.11 a/b/g/n/ac/ax-ready/d/e/h/i/k/r/y 2.4G/5G dual-band, IPV4, IPV6, 5G PA;
	Fast roaming: PMKID caching, 802.11r, OKC
<b>WLAN</b>	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.
<b>WWAN (Europe, Asia)</b>	2G: 850/900/1800/1900 MHz 3G: CDMA EVDO: BC0 WCDMA: 850/900/1900/2100 MHz TD-SCDMA: A/F(B34/B39)
<b>WWAN(America)</b>	2G: 850/900/1800/1900MHz 3G: 850/900/1900/2100MHz 4G: Android 9: B2/B4/B5/B7/B8/B12/B13/B17/B38 Android 11: B2/B4/B5/B7/B8/B12/B13/B17/B28A/B28B/B38

## Data Collection

### Camera

<b>Rear Camera</b>	Rear 13 MP Autofocus with flash
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### NFC

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

### UHF (Optional)

<b>Engine</b>	CM710-1 module based on Impinj E710 CM2000-1 module based on Impinj Indy R2000
<b>Frequency</b>	865-868 MHz / 920-925 MHz / 902-928 MHz
<b>Protocol</b>	EPC C1 GEN2 / ISO18000-6C
<b>Antenna</b>	Circular Polarized Antenna (4 dBi)
<b>Power</b>	1W (30 dBm, +5 dBm to +30 dBm adjustable) 2W Optional (33 dBm, for Latin America, etc.)
<b>R/W range</b>	Up to 15 m (open outdoors, Impinj MR6 tag)
<b>Fastest Read Rate</b>	900+ tags/sec
<b>Communication Mode</b>	Pin Connector

\*Ranges and rates depend on tags and environment

### Barcode Scanning (optional)

<b>2D Scanner</b>	Zebra: SE4710/SE4750SR/SE4750MR/SE4750DP/SE4850; Honeywell: N6603/EX30
<b>1D Symbologies</b>	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.
<b>2D Symbologies</b>	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