

# EA510 moving forward

## High performance in a compact device



### 5.7" screen & compact body

The EA510's vivid display will give you the most exciting visual experience. The 5.7" sized screen combined with a small body size will give an excellent ergonomic feeling.



### Quick charge

Thanks to the Quick Charge 4.0 technology, you will spend less time charging - fully charged within 3 hours.



### Fingerprint reader

Instantly unlock the EA510 with a slightest touch. The fingerprint reader is located on the back for easy access.



### Removable battery

For the enterprise smartphone, long battery life is essential. The EA510 comes with a swappable 4200mAh battery - long time usage without any concerns.



### Professional accessories

Boost the functionality of the EA510 device with Unitech's unique and versatile accessories. From single charging cradle to trigger gun grip to extended 5-slot charging cradles.



### Short Range UHF (optional)

EA510 version with integrated short range UHF/RFID reader with reading distance up to 1 meter\*.



### Long Range UHF (optional)

EA510 version with integrated long range UHF/RFID reader with reading distance up to 6.5 meters\*.

\*Reading distance depends on environment, RFID tags and object.

## Enjoying every task - The EA510 is designed to look sleek, feel sleek and work sleek - ALL DAY ROUND!

This enterprise mobile computer offers all great enterprise features but styled into a consumer smartphone design. The EA510 is impressive with its large 5.7" screen and thin and lighter design. More power-efficient for full-shift usage plus running with the latest Android 9.0 OS.

There is nothing more frustrating than when your device lags in the middle of a task. That's why the EA510 boosts a snappy processor: Qualcomm 660 Octa-core 64bits 2.2 GHz Processor.

The EA510's is a multitasking, responsive and ergonomic device whilst being competitively priced - it's time to move forward.



# Version 1.0 EA510 Specifications

## Operation System

CPU	Qualcomm 660 Octa-core 64bits 2.2 GHz Processor
Memory	RAM: 4GB DDR4, ROM: 64GB
OS	<b>Android 9 with GMS</b> Compatible through R
Card Slot	Micro SD/TF (max. 128GB) + Dual Nano-SIM
Language Support	Multiple languages supported

## Display

5.7" (18:9) TFT-LCD HD colour (720 x 1440 pixels) display  
1.1mm thick Corning Gorilla Glass III. Multi-touch and ultra sensitive capacitive touch screen, compatible with gloves and supports wet resistance.

## Camera/Photos/Video

Front: 5MP camera  
Rear: 16MP camera, Auto Focus, LED flash light

## Indicator

LED, speaker and vibration

## Audio

Dual-microphone supports with noise cancellation, high quality speaker, PTT headset support, cellular circuit switch voice, earphone jack.

## Communication

Interface	USB Type C (Host/Client) Expansion I/O Pogo Pin
<b>OTG</b>	Yes, over USB Type C
WLAN	2.4G/5G Dual frequency WIFI IEEE 802.11a/b/g/n/ac/d/e/f/h/o/k/r/v/w IPV4, IPV6, <b>Data rates</b> 5Ghz: 802.11a/n/ac > up to 866.7Mbps 2.4Ghz: 802.11b/g/n/ > up to 300Mbps <b>Operation channels</b> 2.4Gh: 1-13 (depends on regulatory rules & certification agency) 5Ghz: 36,38,40,42,44,46,48,52,56,60,64,100,104,108,112,116,120,124,128,132,136,140,149,153,157,161,165. <b>Security and encryption</b> 802.1x(EAP): EAP-TLS, EAP-TTLS, PEAP-MSCHAPv2, PEAP-TLS, PEAP-GTC, PWD, SIM, AKA Encryption: WEP, WPA / WPA2-PSK
<b>MIMO</b>	2x2 MU-MIMO for faster uploading and downloading speeds
<b>Fast roaming</b>	PMKID caching, 802.11r, OKC
Bluetooth	Bluetooth 5.0 + BR/EDR + BLE with up to 240* meters distance (*Depends on environment and application). Increased range and bandwidth Multiple devices connection supported
<b>Vo-LTE</b>	Support Vo-LTE HD video voice call
WWAN 4G LTE	TD-LTE (B34/B38/B39/B40) FDD-LTE (B1/B2/B3/B4/B5/B7/B8/B12/B19/B220/B28A/B28B) WCDMA (B1/B2/B4/B5/B8), TD-SCDMA (B34/B39), CDMA2000 1xEV-DO Rev.A BC0 (800MHz), CDMA 1x GSM/EDGE/GPRS (850/900/1800/1900MHz)
GPS	GPS; GLONASS; Galileo; and BeiDou and A-GPS
Other Sensors	Acceleration sensor, Motion sensor, light sensor, Proximity sensor & Gyroscope.
Vibration	2Hz Random PK sine, 10cm displacement withstands multi-side 5000 vibration tests

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## Software Support



## Buttons

Side SCAN button x 2 (Left / Right), Power button, User-defined function button (programmable key), Volume switch button (+ / -), ON / OFF button, Touch keys x 3 (Home / Back / Recent)

## Data capture

Scanning	Scanner (Engine: N6603) Reads all major 1D and 2D codes Supports; multi-reading, Picklist reading, Center decode, OCR function, <b>DPM, Digimarc, DOT code.</b>
RFID/NFC/Mifare	IFrequency 13.56Mhz (NXP NQ553) ISO 14443 Type A&B; FeliCa/Mifare and ISO 15693; Reader mode P2P mode, Card Emulation mode
RFID/UHF	EPC Gen-2, reading distance up to 6.5m*, integrated. (*Depends on environment, tags and object). UHF versions: EA510 Short Range UHF and EA510 Long Range UHF.

## Fingerprint reader

Optical sensor	FBI PIV and FBI mobile ID FAP20 certificates. Recognition to open OS: 50ms typical Success rate FRR=1/10, Reject rate + 1/50000 For user to unlock the device. One user per device.
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## Power Source

Main battery Swappable and rechargeable 3.8V 4300mAh Li-polymer battery pack.

Operation Typical operation Time 10 hours (depending on the specific environment)

**Quick charging** Support QC4.0 with separate power adapter over USB type-C port only

Charging time <3 hours (supports QC4.0 quick charge)

## Enclosure

Weight	250g (with battery)
Dimension	162.6 mm x 76 mm x 13.6 mm

## Environmental

Operating temperature	-20°C to 60°C
Storage temperature	-40°C to 70°C
Charging temperature	0°C to 45°C
Relative humidity	5% ~ 95% (non-condensing)
Drop specification	1.5m drop to concrete at room temperature per MIL-STD810G
Tumble specification	1.0m tumbles
Terminal Shock	-40°C to 70°C rapid transition
Sealing	IP67
ESD	±15kV air discharge ±8kV direct discharge
Tumble	1.0m tumble for 200 cycles and 400 times

## Regulatory Approvals

CE, RED, RoHS, BQB



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