EA510HC HEALTHCARE SOLUTION
Unitech Healthcare Mobile Computer

HEALTH +

Anti-Microbial and Disinfectant-Ready
The EA510HC housing material meets the Anti-Microbial ISO 22196 and Ethanol safe material ISO11737-1/-2 standard. The housing can be cleaned with alcohol (ethanol safe) and sterilized water by wiping the surfaces of the device.

5.7″ screen & compact body
Medical personnel can grab all information in a glance by its large and vivid HD display. The Ultra-high brightness touch screen delivers clear vision even under sunlight. The 5.7″ sized screen combined with a small body size will give an excellent ergonomic feeling.

Fingerprint reader
After safe cleaning the EA510HC you can instantly unlock the device with a slightest touch. The fingerprint reader is located on the back for easy access.

Data collection and Full communication
The EA510HC integrates a 2D imager, HF/NFC reader and support Dual band fast roaming WiFi (MIMO antenna design) and 4G dual nano-sim. In addition the EA510HC offers a pre-installed network-based voice intercom system. Teamwork is accessible by anyone, anywhere at any time by voice command and TTS (text-to-speech).

Removable battery & advanced charging
For the Healthcare smartphone, long battery life is essential. The EA510HC comes with a swappable 4300mAh battery - long-time usage without any concerns. Thanks to the Quick Charge 4.0 technology, you will spend less time charging - fully charged within 3 hours.

In addition the EA510HC offers a diverse range of charging cradles that also have ethanol and anti-microbial safe housing.

Feature icons
- 5.7″ 18:9 HD
- ANDROID 9 GMS
- 8x CORE
- DUAL BAND 2x2 MIMO
- 4G DUAL SIM 4G LTE
- FAST CHARGE 4300mAh
- DUAL SIM
- 2D IMAGER
- NFC READER
- BLUETOOTH 5.0
- FINGER PRINT READER
- POGO PIN

EMPOWERING EVERY TASK!
High performance Anti-Microbial Device!

Healthcare workers on the frontlines deserve the best tools to deliver the best care. With an Android 9 OS + GMS and impressive large 5.7″ screen, the EA510HC delivers more efficiency in one smart device.

Stylish and intuitive along with an integrated high-performance 1D/2D barcode scanner, healthcare workers may use this device to check patient identification and prescription orders through barcode and RFID tag technology to ensure correct medication, dosage, and patient identification before medicines are administrated to patients.

The EA510HC is an excellent tool, it increases mobility and improves efficiency in Point of Care. It is even a safe device for retail or logistics usage. Armed with a snappy Qualcomm 660 Octa-core 64bits 2.2 GHz processor you will be able to upgrade the Android OS through to R.

4-slot battery charger

5-slot terminal charger

1-slot terminal charger
(with spare battery charger)

unitech

Operation System

CPU	Qualcomm 660 Octa-core 64bits 2.2 GHz Processor
Memory	RAM: 4GB DDR4, ROM: 64GB
OS	**Android 9 with GMS** 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, hight quality speaker, PTT headset support, cellular circuit switch voice, earphone jack.

Communication

Interface	USB Type C (Host/Client) Expansion I/O Pogo Pin
OTG	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,

Data rates
5Ghz: 802.11a/n/ac > up to 866.7Mbps
2.4Ghz: 802.11b/g/n/ > up to 300Mbps

Operation channels
2.4Gh: 1-13 (depends on regulatory rules & certification agency
5Ghrz: 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.

Security and encryption
802.1x(EAP): EAP-TLS, EAP-TTLS, PEAP-MSCHAPv2, PEAP-TLS, PEAP-GTC, PWD, SIM, AKA
Encryption: WEP, WPA / WPA2-PSK

MIMO	2x2 MU-MIMO for faster uploading and downloading speeds
Fast roaming	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
Vo-LTE	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; Gallileo; 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

Software Support

airwatch by vmware   SOTI   **Team**Viewer

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, **DOT code**.
RFID/NFC/Mifare	Frequency 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

Chip-based sensor	112x88 sensing array Support finger wake-up function One user enrollment per device

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

Anti-Microbial and Ethanol safe standards

ISO11737-1/-2
ISO 22196
(*Please note, Anti-Microbial and Ethanol safe standards will not apply to Hand-strap, USB cable and battery.)

Regulatory Approvals

CE, RED, RoHS, BQB

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