



EA520

Rugged Smartphone



IP67 & 1.5m Drop Protection | Removable 4100mAh Battery | Superior Barcode Reading (30 scans/sec)

The Unitech EA520 features a 5" bright (450 nits) display with a cutting-edge design. This rugged smartphone is equipped with a powerful barcode reading engine and offers the perfect balance of productivity, connectivity and performance. Along with great features the EA520 is optimized for retail, hospitality and field service environments.

Snappy and powerful

Offering the latest OS of Android 11, the EA520 comes with Google GMS certification. The EA520 offers a snappy performance and features an Octa-core 64-bits 2.0 GHz processor. A swappable and large 4100mah capacity battery frees you from the concern of battery draining during your working day.

Data collection

The EA520 has an integrated powerful 2D imager (SE4710) and supports 1D, 2D and DPM (Direct Part Marking) reading. In addition the EA520 has an integrated HF/NFC RFID reader/writer, a high-resolution 13MP front and 8M rear camera. The EA520 gives your workforce the technology it needs to take your business to the next level.

Seamless connectivity

The EA520 supports Bluetooth® 5, wireless dual-band with fast roaming and 4G connectivity for real-time data collection - an ideal solution for stock management and online order processing. With the integrated dual noise cancelling microphones, the voice clarity remains maintained even in a noisy environment.

Lightweight and durable design

Enhanced durability has been applied to the EA520. This device only weighs 242g but is fitted with a Gorilla® 3 Glass touch panel, has a drop resistance of 1.5m (1.8m with optional boot case) and an IP67 rated body to withstand the harshest environments. A great and lightweight design that just fits in the palm of your hand.

Features

- Lightweight, rugged and compact design
- 5" (1280x720) color and sunlight readable (450 nits) display
- Android 11 OS with GMS certification
- Snappy and powerful 2.0GHz Octa-Core processor
- Swappable 2050mAh battery (over 12 hours* operation time)
- Data capturing: 2D Imager, HF/NFC (reader/writer) and 13MP rear and 8MP front camera
- Supports Bluetooth® 5 / dual-band WLAN, fast roaming / 4G LTE
- 1.5m drop-resistant housing (1.8m with boot case)
- IP67 protection against water and dust
- Corning® Gorilla® Glass 3 touch display
- Supports Unitech Mobility Orchestra & Unitech Utilities
- Supports: MobaLink, SOTI, AirWatch and 42Gears

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because we care

*Battery life depends on type of operation and environment.



EA520

Specifications

System Features

OS	Android 11
GMS certified	GMS certified
CPU	Octa-core 2GHz Processor
Memory	4 GB RAM / 64 GB Flash
Languages support	Multiple languages
Others	Input Chinese/ English Supports handwriting and soft keyboard

Display

Screen Size	5.0" TFT-LCD HD (720 x 1280) color screen
Touchpanel	Gorilla Glass 3. Ultra sensitive capacitive touch screen, compatible with gloves and supports wet resistance

Keypad

Side SCAN button x 2 (Left / Right), User-defined function button (programmable key), volume up/down buttons, on/off button

Camera

8MP front camera
13M rear camera with LED flash and auto-focus function

Indicator Type

LED, Speaker, Vibrator

Symbologies

Supports all major 1D and 2D barcodes

RFID

HF Supports HF/NFC, Frequency 13.56Mhz, ISO14443 A/B, ISO15693, Felica(ISO/IEC18092), Mifare compliance

Power Source

Main Battery 3.8V 4100mAh Li-ion battery
Removable
RTC battery : RTC backup only

Regulatory Approvals

CE, FCC, NCC, CCC, SRRC, VCCI, TELEC, RoHS, BQB, N-Mark, BSMI for battery



Headquarters

Taipei, Taiwan
<http://www.ute.com> e-mail: info@hq.ute.com

unitech America

Los Angeles
<http://us.ute.com> e-mail: info@us.ute.com
<http://can.ute.com> info@can.ute.com
Mexico
<http://latin.ute.com> e-mail: info@latin.ute.com

unitech Asia Pacific & Middle East

Taipei
<http://apac.ute.com> info@apac.ute.com / info@india.ute.com
<http://mideast.ute.com> info@mideast.ute.com

Communication

Bluetooth® Bluetooth® 5 supported
WLAN 802.11 a/b/g/n/ac/d/e/h/i/j/k/r/v, 2.4G+5GHz, support fast roaming, VoWiFi, hotspot, Compliant with WFA, WPA/WPA2
WWAN Global:

4G LTE FDD: B1/B2/B3/B5/B7/B8/B20/B28A/B28B
TDD: B38/B39/B40/B41
3G WCDMA: B1/B5/B8
2G GSM: 850,900,1800,1900MHz

Americas :

4G LTE FDD-B1/B2/B4/B5/B7/B12/B13/B14/B17/B28A/B28B
TDD-B38/B40/B41
3G WCDMA: B1/2/4/5/8
2G GSM: 850,900,1800,1900MHz

GPS AGPS, GPS, GLONASS, Beidou, Galileo
Sensors Light Proximity, Accelerometer, e-Compass, Gyroscope sensor
Fingerprint Optional

I/O Interfaces

USB USB 2.0 (Type-C)
OTG Yes, over USB Type-C
POGO PIN Charging via cradle
SIM Slot Dual SIM , support LTE + LTE
Expansion Slot MicroSD, up to 128 GB
Audio One speaker (90±3dB @ 10cm), One receiver, Dual noise-cancelling microphones

Enclosure

Dimensions Approx. 151.3mm x 76.8mm x 13.6mm
Weight 242g (with battery)

Environmental

Operating temperature -20°C to 60°C
Storage temperature - 40°C to 70°C (without battery)
Charging temperature 0°C to 45°C
Relative Humidity 95% (non-condensing)
Drop Specification 1.5m , 1.8m with boot case
Sealing IP67
Vibration/ Tumble test 0.5m tumbles for 300 cycles / 600 drops

Software

SOTI, AirWatch, 42Gears and MoboLink

Accessories

- USB 2.0 type C cable
- 5V/2A Adaptor
- PE+ Adaptor
- Single Slot Charging Cradle
- Gun grip
- Glass Screen Protector
- Protective Case
- Hand Strap

unitech Europe

Tilburg / Netherlands
<https://eu.ute.com> e-mail: info@eu.ute.com

unitech Japan

Tokyo
<http://jp.ute.com> e-mail: info@jp.ute.com

unitech Greater China

Beijing, Shanghai, Guang Zhou, Xiamen
<http://cn.ute.com> info@cn.ute.com
Taipei <http://tw.ute.com> info@tw.ute.com





Unitech Mobility Orchestra

ORCHESTRA UNITECH MOBILITY SOLUTIONS

Unitech Mobility Orchestra

Unitech Mobility Orchestra Solution guarantees the usability of the delivered products and takes care of the traceability during the lifetime of the product in use. It aims to empower usability, traceability and sustainability to safeguard user's investment with Unitech mobility devices from birth to retirement. It includes 4 components: 12Solutions, StageGo, UnitCare and Mobolink Visibility.



12Solutions

12Solutions provides a suit of great tools that enhances user experience and management needs that turns a standard device into an enterprise work tool.

UnitCare

UnitCare protects your investment of installed devices in the field to be served at best quality. Enjoy enhanced investment protection and a low total cost of ownership.

Development Tool



Unitech API

Unitech system level application programming interface.

Third party EMMs

Unitech third party EMMs supported.



Staging and Management



MoboLink

Android Enterprise ready EMM for monitoring device health and managing apps, configs and files.



StageGo

Barcode-based device staging utility offering hundreds of script commands for you to work with.



OEMConfig

If you are using a third party EMM, OEMConfig will allow those EMM solutions to configure Unitech specific settings on the device.



Enterprise Launcher

Secure your devices by kiosk them with Enterprise Launcher. Block access to the Android system and only allow limited number of apps to be run.



Battery info

Monitor advanced battery health and manage the battery replacement cycle. Use with MoboLink to get real-time battery health alerts delivered to your phone.



Software Update

Check and install software updates online. To let a device always stay up-to-date, setup the device to automatically check and install for updates on boot up.



System Update Center

Check and install firmware updates via FOTA. You can update the firmware via online FOTA server, or by using a OTA ZIP file placed in the internal storage.

Productivity and Utilities



UNote

A simple text viewer and editor for use in your workflows.



Startup

Auto-run apps when device boots.



KeyRemap

Reprogram physical buttons to act as another key or to launch an app.



NTP Server Settings

Customize the NTP server setting to keep your device date and time synchronized.