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 weights 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
- Removable 4100mAh 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: MoboLink, SOTI, AirWatch and 42Gears

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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
Supports DPM reading (*High resolution DPM not supported).

RFID

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

Power Source

Main Battery	Removable 3.8V 4100mAh Li-ion battery (over 12 hours* operation time). RTC battery : RTC backup only

*Battery life depends on type of operation and environment.

Regulatory Approvals

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

SGS UKAS 005 unitech Green Product reading

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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

- 5V/2A USB power adaptor with US/EU/UK/AU plugs
- Glass screen Protector (single pack) or 10x pack
- Single slot charging cradle*
- Single slot USB cradle*
- Hand strap kit (Handstrap incl. bracket arm set)
- Bracket arm set for hand-strap

- Stylus
- Coiled strap (for stylus)
- Boot case
- USB 2.0 type C cable
- Stylus Battery 3.8V 4100mAh
- Gun Grip for EA520 without boot case

* Tip: Use USB cable and/or power Adapter from EA520.

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EA520
Software Solution

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.

12 Solutions   StageGO   MoboLink Hyperlink to your mobile devices   unitcare

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.

SOTI
42GEARS
vmware

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 kiosking 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.