



EA520

Rugged Smartphone

IP67 & 1.5m Drop Protection I Removable 4250mAh Battery I Superior Barcode Reading (30 scans/sec)

Introducing the EA520, the 5" cutting-edge rugged smartphone delivers powerful barcode reading performance, convenient connectivity, durable but lightweight design that just fits in the palm of your hand. This enhance the service level for a variety of vertical applications within the retail, hospitality and field service sectors.

Portability for Better Retail Associate Experience

Powered by the Android 11 OS with GMS certification, the EA520 is equipped with octa-core CPU to deliver users excellent performance for smarter, more intuitive interactions. Specially designed for portability and versatile functionality, this device is easy to carry around for inventory checking, communicating with supervisor, supporting customers on the sales floor that redefines the retail associate working experience with convenient tool.

Powerful Barcode Reading Performance

Featuring powerful 1D/2D scanning capability, it also supports DPM codes and ensures read reliability for mobile phone screens and paper in any orientation. Powered by a removable 4250mAh battery, it is integrated HF/NFC RFID reader/writer, GPS, and a high-resolution 13MP camera in a compact device. The EA520 gives your workforce the technology it needs to take your business to the next level.

Durable at Its Best

The EA520 enhances the industrial durable protection with features including IP67 dustproof, waterproof and 1.5 meters resistant to fall protection (1.8 meters with boot case). That means it covers fully protected from dust and can survive in 1 meter of water for up to 30 mins.

Seamless And Connectivity

Featuring Bluetooth® 5, wireless dual bands with fast roaming and 4G connectivity for real-time data collection, staff can scans the item and instantly connect to the backend system to find out the quantity in stock or make an online order for customers. The EA520 delivers a seamlessly work experience and improves productivity for various applications.

Features

- 5-inch display with 450 nits sunlight readable
- Android 11 OS with GMS certification
- Support 1D / 2D barcode on mobile screens, even DPM barcodes
- Lightweight design that just fits in the palm of your hand
- All-In-One functionality: HF/NFC and 13MP camera
- Rugged: Corning® Gorilla® Glass 3 touch display, IP67 rated, and 1.5M drop (1.8M with boot case)
- Long-lasting removable 4250mAh battery
- Support Bluetooth® 5 / dual-band WLAN, fast roaming / 4G LTE
- Support MDM Software Solutions and utilities such as MoboLink

SOTI Ivanti Wavelink Validated SYSDEV KALIPSO mobile application generator

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EA520
Specifications



System Features

OS	Android 11 upgradeable to Android 13
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

Support all major 1D and 2D barcodes

RFID

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

Power Source

Main Battery	3.85V 4250mAh Li-ion battery Removable

Software

SOTI, AirWatch, 42Gears, and MoboLink

Regulatory Approvals

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

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 256 GB
Audio	One speaker (1.5W / 95±3dB @ 10cm), One receiver, Dual noise-cancelling microphones

Enclosure

Dimensions	151.1mm x 76.8mm x 13.7mm
Weight	246g (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

Accessories

- USB 2.0 type C cable
- 5V/2A Adaptor
- PE+ Adaptor
- Single Slot Charging Cradle
- Single Slot USB Cradle
- 4-Slot Terminal Charging Cradle
- 4-Slot Battery Charger
- Gun grip
- Glass Screen Protector
- Protective Case
- Hand Strap
- Wearable Kit w/ bracket, strap, pad
- Vehicle Cradle

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07/24 Rev.K

EA520
Software Solution

Development Tools

unitech SDK

Device Management

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 attery 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 work flows.

Startup
Auto-run apps when device boots up.

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.

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