



EA520

Rugged Smartphone



IP67 rating + 5ft drop protection | Swappable 4100mAh battery | Compact design

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

Portable Power for a More Effective Retail Associate Experience

Running on the Android 11 OS with GMS certification, the EA520 is powered by an octa-core CPU to deliver users excellent performance for smarter, more intuitive interactions. Carefully designed for portability and versatile functionality, this device is easy to carry around for inventory checking, communicating with supervisors, and supporting customers on the sales floor. The EA520 redefines the retail associate working experience with its convenient features.

Outstanding Barcode Reading Performance

Featuring powerful 1D/2D scanning capability, the EA520 supports DPM codes and ensures read reliability on mobile phone screens and paper in any orientation. Powered by a swappable 4000mAh battery, it boasts an integrated HF/NFC RFID reader/writer, GPS, and a high resolution 13MP camera in a compact device. The EA520 gives your workforce the technology you need to take your business to the next level.

Durable Design

The EA520 is rugged enough for any industrial workplace, with durable protection features like IP67-level dust- and water-proofing and 6 feet of resistance to falls (6 feet with boot case). The EA520 is fully protected from dust and can survive in up to 3 feet of water for up to 30 minutes.

Seamless Connectivity

Featuring Bluetooth® 5, wireless dual bands with fast roaming and 4G connectivity for real-time data collection, the EA520 allows your staff to scan items 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 seamless work experience and improves productivity in various applications.

Main Features:

- 5-inch display with 450nits sunlight readability
- Android 11 OS with GMS Certification
- Support 1D / 2D barcode on mobile screens, even DPM barcodes
- Lightweight design that 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 5ft drop resistance (6ft with boot case)
- Long-lasting, removable 4100mAh battery
- Supports Bluetooth® 5 / dual-band WLAN, fast roaming / 4G LTE
- Supports MDM Software Solutions and utilities such as MoboLink



System	
CPU	2GHz, MTK P22, 64bits Octa-core Processor
Memory	4 GB RAM / 64 GB Flash
OS	Android 11
GMS	GMS certified
Supported Languages	Multi-language
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	
	All major 1D and 2D codes
RFID	
HF	Support HF/NFC, Frequency 13.56Mhz, ISO14443 A/B, ISO15693, Felica(ISO/IEC18092), Mifare compliance
Power Source	
Main battery	3.8V 4100mAh Li-ion Swappable Battery RTC battery: RTC backup only
Environmental	
Operating temperature	-4°F to 140°F (-20°C to 60°C)
Storage temperature	-40°F to 158°F (-40°C to 70°C) (without battery)
Charging temperature	32°F to 113°F (0°C to 45°C)
Relative humidity	95% (non-condensing)
Drop rating	5ft, 6ft (1.5m, 1.8m with boot case)
Environmental seal	IP67
Environmental seal	1ft 7in (0.5m) tumbles for 300 cycles / 600 drops
Enclosure	
Dimensions	Approx. 5.9in x 3in x .5in (151.3mm x 76.8mm x 13.6mm)
Weight	8.5oz (242g) (with battery)
I/O Interfaces	
USB	USB 2.0 (Type-C)
OTG	Yes, over USB Type-C
POGO PIN	Charging via cradle
SIM Slot	Dual SIM, supports LTE + LTE
Expansion Slot	MicroSD, up to 128 GB
Audio	One speaker (90±3dB @ 10cm), One receiver, Dual noise-cancelling microphones
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
Accessories	
	USB2.0 Type C Cable
	5V/2A Adapter
	PE+ Adapter
	Single Slot Charging Cradle
	Gun Grip
	Glass Screen Protector
	Protective Case
	Hand Strap
Software	
	SOTI, AirWatch, 42Gears, and Mobolink
Regulatory Approvals	
	CE, FCC, NCC, CCC, SRRC, VCCI, TELEC, RoHS, BQB, N-Mark, BSMI for battery



Specifications subject to change without notice.

Copyright 2021 Unitech Electronics Co., Ltd.
All rights reserved. Unitech is a registered trademark of Unitech Electronics Co., Ltd.

All product and company names are trademarks, service marks, or registered trademarks of their respective owners.