



# PA720E Plus

## Rugged Smartphone

2D Barcode Scanner with Laser Aimer | 6" Gorilla Glass Display | Android 12 with 4G/64G memory

The unitech PA720E Plus continues progressing with an advanced Android 12 system to optimize high-performance 2D barcode experience, accelerating and improving labor productivity tremendously than ever. The full touch 6" Gorilla screen offers clear visibility up to 80% screen-to-body ratio. A bigger 4G/64G mobile storage mitigates the possibility of data missed. The Ultra Slim Rugged Smartphone drives up stock management more efficiently in the retail, hospitality, and health service industries.

### Latest Android 12 OS on Large Screen

Operated under Android 12 OS with GMS Certified, the PA720E Plus rugged smartphone has a 6-inch 18:9 display offering 80% screen-to-body ratio. The 450nits brightness provides easy viewability even in sunlight environment.

### A Data Collector for All Your Need

PA720E Plus not only fulfills superior 1D/2D scanning performance but surpass end-user expectations. A wide series of practical features, including an NFC reader/writer, GPS, and a high-resolution 5MP front and 16MP rear camera, further strengthen traceability and functionality in a compact device. Attach and ready-to-use. With the unique UHF RFID gun grip, PA720E Plus allows users to add values much simpler.

### Stay Connected with Lasting Battery life

Featuring the fastest data speeds with fast roaming function on dual bands WLAN, 4G LTE connectivity and Bluetooth® 5, the PA720E Plus bridges the gap between associates to ensure instant message and alerts are received within teams. With a long-lasting 4000mAh removable smart battery, the PA720E Plus offers continuous use for hours and it is easily replaced.

### Durable design and flexible Options

PA720E Plus enhances the industrial durable protection with features including IP65 dustproof, waterproof, and 1.2 meters resistance to fall protection. (1.5 meters with boot case) It has various accessories such as RFID gun grip and cradles and also supports unitech software solutions, SDKs, MoboLink, and 3rd party MDM solutions such as VMware AirWatch, SOTI, Ivanti Wavelink.

### Features

- 6 inch rugged smartphone with a screen-to-body ratio of over 80%
- Android 12 OS with GMS Certification
- All-In-One functionality: 2D Imager, NFC, 5MP front camera, and 16MP rear camera
- Rugged: Corning® Gorilla® Glass 5 touch display, IP65 rated, and 1.2M drop (1.5M with boot case)
- Long-lasting removable 4000mAh smart battery
- Dual bands WLAN with fast roaming / 4G LTE / Bluetooth® 5
- Support unitech software solutions, SDKs, MoboLink, and MDM solutions

SOTI



 unitech



### System Features

OS	Android 12
GMS certified	GMS certified
CPU	2GHz, Qualcomm® Snapdragon™ 662
	64bits Octa-core Processor
Memory	4 GB RAM / 64 GB Flash
Languages support	Multiple languages
AI	3rd Gen Qualcomm AI Engine

### Display

Capacitive type 5 points multi-touch touch panel with Gorilla® 5 Glass 6", 18:9 Full-HD (2160 x 1080) color screen (450nits)

### Buttons / Keypad

5 keys- Programmable function button; dual dedicated scan buttons; volume up/down buttons; on/off button

### Indicator Type

LED, Speaker, Vibrator

### I/O Interfaces

USB	USB 3.1 (type-C) support USB OTG Support Ethernet/USB-Host via cradle
SIM Slot	Dual nano SIM Slot
Expansion Slot	MicroSD, up to 256 GB
POGO PIN	PogoPin backside: Support Gun-grip, UHF reader PogoPin bottom: Charging via cradle

### Audio

One speaker with Smart PA (95±3dB @ 10cm), One receiver , Dual noise-cancelling microphones

### Power Source

Main Battery 3.85V, 4000mAH Li-polymer battery

### Regulatory Approvals

CE, FCC, NCC, VCCI, TELEC, CCC, SRRC, RoHS, CEC, BOB, N-Mark

### Communication

Camera	5MP front camera 16 MP Rear with auto-focus function and Flash Light
Bluetooth®	Bluetooth® 5 supported
WLAN	Wireless LAN 802.11a/b/g/n/ac, 2.4GHz and 5GHz Support 802.11d/e/h/i/k/r/v, fast roaming Compliant with WEP, WPA and IEEE 802.11i WPA2
WWAN	GSM: 850,900,1800,1900 MHz WCDMA: Band 1, Band 2, Band 5, Band 8 LTE:FDD-LTE(B1/B2/B3/B4/B5/B7/B8/B12/B17/B19/B20/B28) TDD-LTE (B38/B39/B40/B41)
GPS	AGPS, GPS, GLONASS, Beidou, Galileo
RFID/HF	Support HF/NFC Frequency 13.56Mhz Support: ISO14443A/B, ISO15693, Mifare, Felica(ISO/IEC18092) compliance
Sensor	Gyroscope, Light sensor, e-Compass, Proximity sensor, Accelerometer sensor

### Symbologies

1D Barcodes	UPC/EAN/JAN, GS1 DataBar, Code 39, Code 128, Code 11, Code 93, Codabar/NW7, Interleaved 2 of 5, Matrix 2 of 5, MSI, Trioptic, Code 32
2D Barcodes	PDF417, MicroPDF417, GS1 Composite , Aztec Code, Data Matrix, QR Code, Micro QR Code, MaxiCode, Han Xin Code, DOT Code
Postal	Intelligent Mail Barcode, Postal-4i, Australian Post, Japanese Post, Netherlands (KIX) Post, Postnet, Planet Code
OCR	OCR-A, OCR-B, E13B (MICR)

### Environmental

Operating temperature	-10°C to 50°C
Storage temperature	-30°C to 70°C (without battery)
Charging temperature	0°C to 45°C
Relative Humidity	10% ~ 90% (Non-Condensing)

### Durability

Drop Specification	1.2m , 1.5m with boot case
Sealing	IP65
Vibration/ Tumble test	MIL-STD 810G

### Enclosure

Dimensions	157mm x 76.4mm x 13.9mm ( H x W x D )
Weight	232g

### Accessories

Stylus	Single Slot Charging cradle
Hand strap	Single Slot USB cradle
Quick charge adaptor (via USB type-C cable)	Single Slot Ethernet cradle
USB 3.0 type-C cable	4 Slots Ethernet cradle
9H glass screen protector	4 Slots Terminal Charging cradle
Gun grip: standard/ UHF	

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### Development Tools



Unitech SDK



Scanner SDK



RFID SDK

Unitech offers a number of SDK toolkits for developers to write apps that can interact with the unitech devices for the mobile, scanner, and the RFID product lines.

### Device Management



### 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



USS

Configure all scanner settings with friendly user interface and enable the service to make scanning data as keypad input.



USS Profile



USS Camera

Capture barcode data using the device camera and send the data to your applications as keyboard inputs.



KeyRemap

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



WLAN Advanced

Configure advanced WLAN settings such as power saving mode and roaming parameters.



NTP Server Settings

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



UNote

A simple text viewer and editor for use in your work flows.



Startup

Auto-run apps when device boots up.



# PA720T Plus

Global Model : RT112 | India : PA720T Plus

## 10.1 Inch Android Rugged Tablet

5G & WLAN 6E | Longevity QCM5430 Processor | IP67 & 1.5M Drop

### Powered by Android 13 OS with GMS & AER Certified

The PA720T Plus is a 10.1-inch Android 13 rugged tablet equipped with an advanced 64-bit Hexa Cores CPU capable of reaching speeds up to 2.1 GHz. It effortlessly handles demanding tasks while ensuring smooth multitasking. With the distinction of Google Certification, encompassing Google Mobile Service (GMS) and Android Enterprise Recommended (AER) endorsement, the dual certification assures a secure and efficient business environment.

### Seamless and Connectivity via Wireless Communication

Featuring Bluetooth® 5.2, wireless WLAN 6E with fast roaming and 5G connectivity for real-time data collection, user can scan the item and instantly connect to the backend system to find out the quantity in stock or make an online order for customers. The PA720T Plus delivers a seamlessly work experience and improves productivity for various applications, making it faster downloads and uploads at user's fingertips on the most reliable networks for your business.

### 5G IOT Platform

Equipped with the Qualcomm 5430 5G IoT Platform, the PA720T Plus offers seamless integration into the future of technology. Its robust 5G capabilities ensure lightning-fast data transfer and a responsive online experience, all while being optimized for the demands of the Internet of Things. With a focus on longevity, the PA720T Plus boasts an extended life cycle, making it an ideal investment for those seeking a device that will remain relevant and efficient for years to come.

### Durable Design

The PA720T Plus enhances the industrial durable protection with features including IP67 dustproof, waterproof, and 1.5 meters resistance to fall protection. That means it covers fully protected from dust and can survive in 1 meter of water for up to 30 mins. The MIL-STD-810H standard assures an overall environmental vibration and humidity. The light tablet with a slim 12mm edge is designed for workers to comfortably capture data and check inventory in high portability from day to night. For an easy touch and view, the 10.1" display supports glove and wet touch mode with 450 nits.

### Features

- Android 13 with GMS & AER Certified
- 10.1" (1920 x 1200) LCD display with Gorilla® Glass (450 nits)
- Lightweight but durable: 690g with 12mm
- Rugged Design: IP67 rated, 1.5M drop and MIL-STD-810H certified
- Wireless Communication: 5G & WLAN 6E
- 5G IOT Platform (Qualcomm 5430): Support Long Life Cycle

### System Features

OS	Android 13.0 with AER certified
GMS certified	GMS certified
CPU	Qualcomm Snapdragon™ 5430 Processor, 64bits, Hexa Cores up to 2.1 GHz (Option: Octa Cores)
Memory	6GB RAM + 128GB Flash (Option: 8GB RAM + 128GB Flash)
AI	6th Gen Qualcomm AI Engine
Others	Qualcomm® Trusted Execution Environment (TEE)

### Display

10.1" (1920 x 1200) LCD Display 450 nits  
Gorilla® Glass, Multi-Touch User Interface with Capacitive, stylus, glove, wet-finger Compatibility

### Buttons / Keypad

6 Physical Buttons  
Power, Volume+/-, Scan Key x 2, Programmable Key x 1

### Indicator

LEDs, Vibrator

### RFID

Support HF/NFC  
ISO14443-4 (Type A, Type B), ISO15693, Mifare, Felica(ISO/IEC18092)

### I/O Interfaces

USB	USB3.1 Type-C x 1
POGO PIN	POGO pin
SIM Slot	Nano SIM x 1
Expansion Slot	Micro SD Card x 1
Audio	Dual-speakers MIC*2 (noise cancelling & Background noise depression)

### Power Source

Main Battery 8800mAh (removable)

### Software

Support MDM Software Solutions and utilities such as Airwatch, SOTI, Ivanti Wavelink, and MoboLink

### Regulatory Approvals

CE, UKCA, FCC, IC, NCC, BSMI, VCCI, TELEC, CCC, SRRC, BQB, RoHS, REACH

### Symbologies

1D	Codabar, Code 11, Code 128, Code 2 of 5, Code 39, Code 93 and 93i, EAN/JAN-13, EAN/JAN 8, IATA Code 2 of 5, Interleaved 2 of 5, Matrix 2 of 5, MSI, GS1 Databar, UPC-A, UPC E, UPC-A/EAN-13 with Extended Coupon Code, Coupon GS1 Code 32 (PARAF), EAN-UCC Emulation, GS1 Data Bar
2D	Codablock A, Codablock F, PDF417, MicroPDF417, Aztec Code, Data Matrix, MaxiCode, QR Code, Chinese Sensible (Han Xin), Grid Matrix, Dot Code
Postal	Australian Post, British Post, Canadian Post, China Post, Japanese Post, Korea Post, Netherlands Post, Planet Code, Postnet

### Communication

Camera	Rear:13M (with auto-focus and LED flash, Support Google Arcore & Depth API) Front:5M (with fixed focus)
Bluetooth®	Bluetooth® 5.2
WLAN	WLAN 6E, 2.4GHz & 5GHz & 6GHz Support Dual-Band Simultaneous (DBS) IEEE 802.11a/b/g/n/ac/d/h/i/l/k/r/v/ac/ax (2x2 MU-MIMO)
WWAN (Optional)	5G FR1 Sub 6GHz: N1/N2/N3/N5/N28/N41/N48/N66/N71/N77/N78/N79 (4x4 MIMO) 4G LTE (FDD) – Bands 1, 2, 3, 4, 5, 7, 8, 12, 13, 17, 20, 28, 66, 71 LTE (TDD) – Bands 38, 39, 40, 41 3G UMTS/HSPA+ – Bands 1, 2, 5, 8 2G GSM/GPRS/EDGE (850/900/1800/1900 MHz) Support 2G/3G/4G/5G
GPS	GPS, BeiDou, Glonass, Galileo, QZSS, NavIC and SBAS (for WWAN model only)
Sensors	Gyroscope, Accelerometer (G-sensor), E-compass, Light & Proximity Sensor

### Enclosure

Dimensions	260x165x12mm
Weight	690g

### Environment

Operating temperature	-20°C ~ 55°C
Storage temperature	-40°C ~ 70°C
Drop test to Concrete	1.5m
Environmental Sealing	IP67
Vibration and Shock test	MIL-STD-810H, Method 516.8, Procedure IV

### What comes in the box

RT112  
Battery Pack  
USB-C Adaptor

### Accessories

Rotatable Hand Strap  
Shoulder Strap  
Screen Protector  
Office Cradle  
Vehicle Cradle  
Capacitive Stylus Pen (5.5mm) w/ Coil Strap

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## Development Tools



Unitech SDK



Scanner SDK



RFID SDK

Unitech offers a number of SDK toolkits for developers to write apps that can interact with the unitech devices for the mobile, scanner, and the RFID product lines.

## Device Management



## Staging and Management



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



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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.



Unitech Scanner Utility

An Android application which helps users connect, configure and use a supported Unitech Bluetooth scanner.

## Productivity and Utilities



USS

Configure all scanner settings with friendly user interface and enable the service to make scanning data as keypad input.



USS Profiles



USS Camera

Capture barcode data using the device camera and send the data to your applications as keyboard inputs.



KeyRemap

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NTP Server Settings

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



UNote

A simple text viewer and editor for use in your work flows.



Startup

Auto-run apps when device boots up.



TagAccess

For versatile functions of RFID command via integrating with Unitech RFID Readers.



Logger

An easy and fast way to get logs from a device.



Enterprise Keyboard

Enterprise Keyboard gives various methods for user to input data to enhance efficiency and productivity.



# EA520T

## Windows 11 Rugged Tablet

800 nits Sunlight Readable | Wi-Fi 6 Technology | Sensitive Digitizer Support



Deliver the thinnest and lightest rugged tablet, The Unitech EA520T also known as the Unitech TB170, to ramp up your work production. Weighing at just 990g and featuring with slim 15mm edge, the 10.1-inch rugged tablet is engineered to give you optimum portability to finish tasks with a comfortable digitizer at ease. Operated in Windows 11 and a faster Wi-Fi 6 connection, EA520T safeguards the scanned data stability and accuracy under the refreshed system look for every user working in manufacturing, field service, and warehousing.

### Advanced Technology: Wi-Fi 6

Its dependable Bluetooth® 5.2 and low-latency Wi-Fi 6 connectivity is perfectly suited for industries requiring wider space movement, such as large warehouses and distribution centers. The faster 9.6 Gbps speed rate stabilizes the wireless connection for Internet phone calls and meetings even when a bunch of devices is connected.

### Thin and Light Tablet yet Durable

The light tablet with a slim 15mm edge is designed for workers to comfortably capture data and check inventory in high portability from day to night. For an easy touch and view, the 10.1" display supports glove and wet touch mode and is sunlight readable with 800 nits. To meet enterprise rigorous scenarios, EA520T withstands dust and water drops with IP65 protection and is tested for 5 ft / 1.5 m onto concrete. The MIL-STD-810G standard assures an overall environmental vibration and humidity.

### Smooth Input, Greater Output

Coming with a sensitive digitizer, the EA520T empowers associates to write a memo or a signature on the 10-point multi-touch panel. Paired with a superior 2D engine, it collects data efficiently by pressing its programmable key. These integrated I/O ports (USB TypeA&C, SIM Card Reader, RJ45 Ethernet Port, Replaceable DC jack, Micro HDMI, SDXC Card Reader, 3.5mm Audio jack) allow external equipment to synchronize data once they are connected.

### Full-shift Battery Life

The high capacity 4300mAh battery ensures workers to cope with long work shifts of up to 10 hours (depends on usage function and environment). With the hot-swappable design, it's no need to shut down your EA520T or interrupt work activity to sustain a consecutive task. As mobility is highly valued in field service, the TB170 can be carried around on a shoulder strap or hand strap; for the static workplace, office and vehicle docking are your best solutions to meet all scanning requirements.

### Features

- Windows 11 enterprise operating system
- 10.1" (1920 x 1200) IPS 800 nits sunlight readable
- Hot-swappable battery design with a capacity 4300mAh up to 10 hours (depends on usage function and environment)
- Lightest and thinnest casing only 990 g with 15 mm
- 5 physical buttons: power, vol+, vol-, 2 programmable keys
- Rugged Design: IP65, MIL-STD-810G, 1.5m drop resistance
- Latest wireless technology: Wi-Fi 6 802.11a/b/d/e/g/h/i/k/n/r/t/u/v/w/ac/ax & Bluetooth® 5.2
- Simply write and highlight on digitizer pen
- Common and useful I/O ports you name including USB TypeA&C, Ethernet
- Various Accessories: Shoulder-Strap / Hand-Strap/ Vehicle docking/ Office docking / Brief Case Handle
- Support Trusted Platform Module (TPM) 2.0





### System Features

OS	Windows 11 Enterprise
CPU	2.6Ghz, Intel® Gemini Lake-R Celeron N4120
Memory	LPDDR4 8GB on Board / 128GB eMMC
Others	TPM (Trusted Platform Module) 2.0 support

### Display

10.1" (1920 x 1200) IPS 800 nits Sunlight Readable  
 10-point multi-touch, support glove mode and wet-touch mode  
 (Support MPP2.0 Digitizer Pen)

### Buttons / Keypad

5 Physical Buttons power, vol+, vol-, 2 programmable keys

### Indicator Type

LEDs, Vibrator

### I/O Interfaces

USB	USB 3.1 Type A x 1 USB 3.1 Type C x 1
SIM Slot	SIM Card Reader [Nano]
Expansion Slot	Docking connector RJ45 Gigabit Ethernet Port Replaceable DC jack Micro HDMI SDXC Card Reader [Micro]
POGO PIN	Reset hole POGO pin

### Audio

Microphone, speaker and 3.5mm audio jack

### Power Source

Main Battery Battery: 7.68V, 4300mAh / 32 Wh  
 Backup Battery: 7.4V, 142mAh / 1.05Wh  
 Hot-swappable  
 Battery Operation: up to 10 hours (depends on usage function and environment)

### Communication

Camera	2MP front camera 8MP rear camera, Auto Focus, Flash
Bluetooth®	Bluetooth® 5.2 supported
WLAN	Wi-Fi 6 [802.11a/b/d/e/g/h/i/k/n/r/u/v/w/ac/ax] (2X2 MIMO) Intel WLAN Module: AX200
WWAN	Optional: Quectel EM06-E (EMEA/APAC) Optional: Quectel EM06-A (North America)
GPS	GPS/ GLONASS/ GALILEO
Sensor	9 Axis MEMS sensor [Accelerometer, eCompass, Gyroscope] Ambient Light Sensir Proximity Sensor

### Symbologies

Optional 1D/2D Barcode Reader

### Enclosure

Dimensions	283 x 192 x15 (mm)
Weight	990g

### Environmental

Operating temperature	-10~50°C
Storage temperature	-20~60°C

### Durability

Drop Specification	1.5m
Sealing	IP65
Vibration/ Tumble test	MIL-STD 810G

### Regulatory Approvals

CE, FCC, BSMI, NCC

### Accessories

Shoulder-Strap  
 X-strap  
 Vehicle Docking  
 Office Docking  
 Brief Case Handle  
 Digitizer Pen, B-type  
 Stand

### Head Office

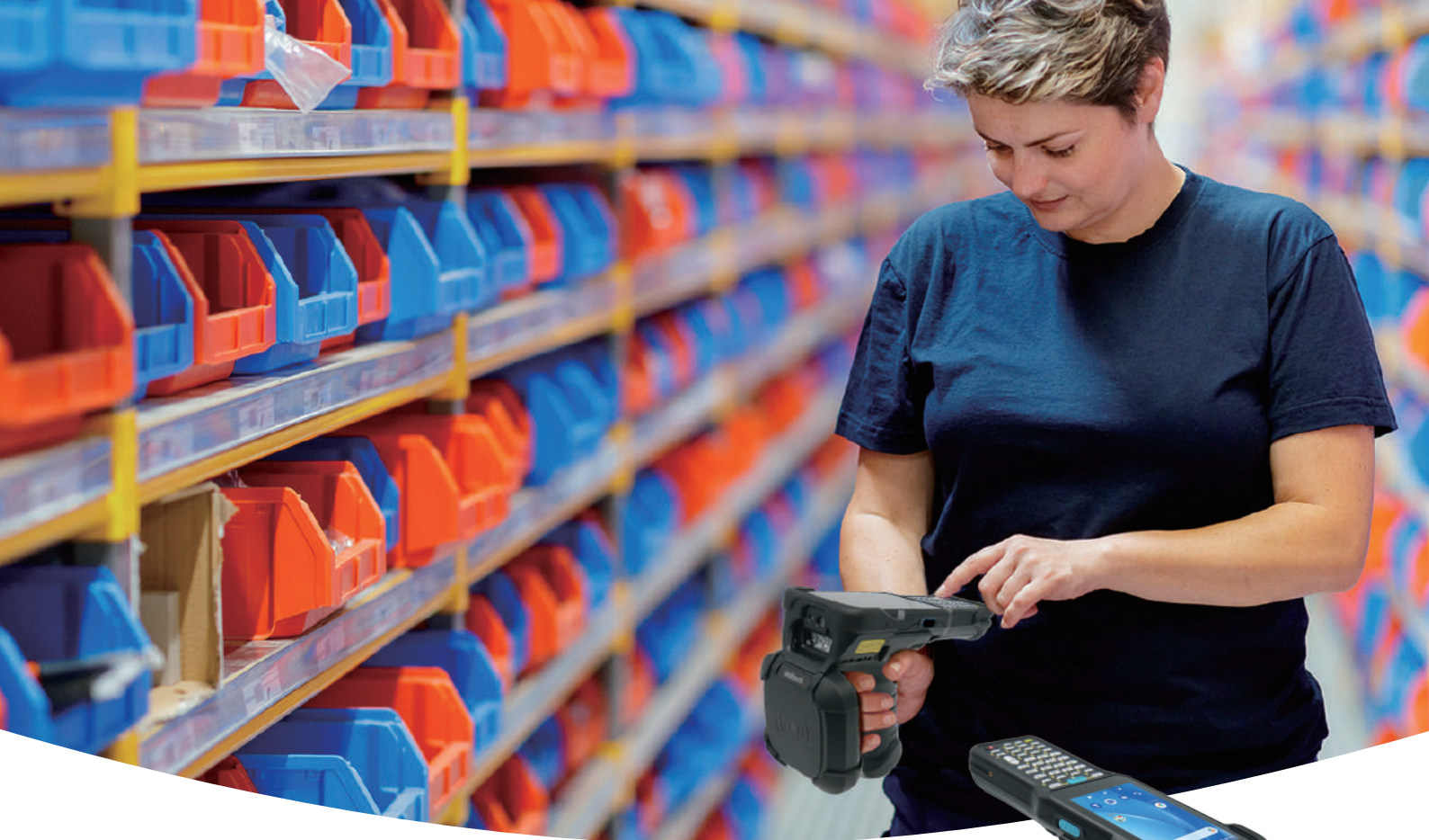
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# HT682 Android UHF RFID Rugged Handheld Terminal

15m Read Range | 6700mAh with Hot-swap Battery | IMPINJ R2000

The HT682A UHF is also known

as HT730UHF is an omnidirectional 15M-read-range RFID terminal that reads 750 tags+ per second to let associates quickly access data when managing stock. With the sophisticated IMPINJ R2000 embedded chip, gaining clear visibility of assets and location is never a troublesome task. And there's no need to turn off the device or stop the App from running. Your associates can still hot-swap 6700mAh battery on continuous work. An ultra-powerful RFID reader with resistance to dust and water and withstanding 1.8m drop is your best fit for warehousing, field service, and transportation & logistics.

## Ultra-powerful RFID Reader to Boost Efficiency

The best-in-class RFID reader is designed for the extended reading range up to 15 meters, offering data in real-time and facilitating better traceability of the product. The highly-sensitive chip, IMPINJ R2000, can read multiple UHF tags simultaneously and further accelerate the entire shipping and goods validation process. Maximum 36 EIRP dBm power reads most RFID tags like EPC Global Class 1 Gen 2 and ISO 18000-6C compliant within the global frequency range between 865MHz and 928MHz (US/EU/-JP/TW/CN). On the logistics cycle, the HT682A UHF reader keeps the process going faster and on time.

## Continuous Work with Fast Read Rate

Driving up productivity with more tag reads per second, HT682A UHF performs at least 750 reads to undertake high-volume data on the site of a large distribution center. It eliminates the manual work to check parcels on loading pallets and saves precious time to end-user delivery. The 6700mAh battery runs operation up a whole day to handle a packed schedule and can be easily swapped to proceed 24/7 working.

## Advanced Connectivity for Instant Feedback

The 4-inch display provides more readability to view instant feedback while reading tags. The screen is easy to view indoors and outside, even in bright sunlight. Either connected with Bluetooth® 5.1 or a WIFI network, HT682A UHF allows users to quickly check misplaced or missing items on integrated Apps, such as access. It's an easy-to-aim device that provides clear audible, tactile, and visual feedback on each read.

## Enterprised-level protection

With a balanced and ergonomic gun grip design, HT682A UHF fits comfortably in your hand with a push-to-talk trigger and releases the strain on a long working shift. While it's designed to be sleek, the reader is durable enough for field service teams that maintain infrastructure or logistics teams that carry on the parcel to our community. The IP65 enterprise-level protection against water and dust supports our everyday life workers with a rugged yet trustworthy tool.

## Features

- Industry-leading 15M RFID read range
- High sensitivity and optimum chip: IMPINJ R2000
- Swappable smart battery with lasting 6700mAh capacity
- Support Hot Swap function, keeps applications active up to 1 minute
- Wi-Fi Dual Antenna, 2X2 MU-MIMO supported
- Perform 750+ tag reads per second
- Maximum EIRP of 36 dBm
- Integrated various WIFI connections: IEEE 802.11a/b/g/n, 802.11ax-ready, 802.11ac Wave 2 with 2X2 MU-MIMO WLAN Standard
- Wirelessly connect with Bluetooth® 5.1
- Ultra-sensitive 4" display touch screen
- Balanced, ergonomic, and robust gun grip design
- Enterprise-durable protection with IP65 protect and 1.8m drop to concrete



# HT682A UHF

## Specifications

### Operation System

OS	Android 10 with GMS
CPU	Qcta-core 2.3 GHz, Qualcomm 720G (SM7125)
Memory	4GB RAM / 64GB Flash
Languages support	Multi-languages

### Display

Screen Size	4" TFT-LCD WVGA (480x800) color screen (400 nits)
Touchpanel	Ultra-sensitive capacitive touch screen, compatible with gloves and support wet resistance

### Camera

Rear 13 MP Autofocus with flash

### Keypad

Function Numeric (38 key) with backlight

### Indicator

LED, Speaker, Vibrator

### Power Source

Main battery 6,700mAh, 3.7V

### Symbologies

2D Barcodes	N6703 N3603 / EX30 (optional)
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### RFID

UHF	EPC Class1 Gen2 V2; ISO-18000-6C 865-928MHz (Specific regional and country settings supported upon country selection)
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### UHF RFID Performance / Interface

Reading Distance	15 m
Tag Read Rate	750+ tags/sec
EIRP	36 dBm

### Communication

Bluetooth®	Bluetooth® 5.1
WWAN	802.11a/b/g/n, 802.11ax-ready, 802.11ac Wave 2 (Dual Antenna, 2X2 MU-MIMO support)

### Enclosure

Dimension	203 x 82.2 x 164.3 mm
Weight	750 g

### Environmental

Operating temperature	-20°C to +50°C
Storage temperature	-30°C to 70°C (without battery)
Charging Temperature	0°C to 45°C
Relative Humidity	5% ~ 95% (non-condensing)
Electrostatic Discharge	+/-15kV air discharge +/-8kV contact discharge
Drop Specification	1.8 m
Sealing	IP65





# MS588i-2D

## Wearable 2D Ring Scanner



The Unitech MS588i-2D is also known as the MS652 in other parts of the world. It is the new 2D ring scanner in its industry-leading wearable portfolio. The MS588i-2D series features a wearable design that gives users freedom of movement to perform barcode scanning tasks comfortably while keeping both hands free. The MS588i-2D series is designed to streamline the workflow for a wide range of applications such as retail, logistics, field service, and hospitality.

### Ergonomic design for mobile operators

The MS588i-2D wearable 2D ring scanner enables its operator to move products, packages, materials, and proceed with their barcode reading tasks more efficiently, safely, and comfortably. Whether you prefer left or right-handed operation, users can instantly switch between right and left hand operation with the special one-push rotate design. It improves productivity in your operations with the wearable technology.

### Ultimate 2D wireless ring scanner

Featuring a superior scan engine, MS588i-2D is available to scan most 1D, 2D, and PDF417 barcodes printed on paper labels or displayed on the screen of a mobile phone. Moreover, the wireless technology keeps the scanner connected up to 100 m (300 ft) from the computer, increasing productivity by allowing workers to move to the task. The MS588i-2D can be utilized with an auto mode that ensures no data is lost while it is out of range of the wireless signal, also upload the data to the back-end system automatically when it gets back in range, allowing users to complete their tasks without interruption.

### Small but Durable

The MS588i-2D is small but extremely rugged, which supports IP42 protection against water and dust as long as 1.5 meters drop-resistant housing. In addition, the MS588i-2D is built in a changeable and rechargeable battery pack that allows users to improve your work productivity at work. With an ergonomic and compact design, the MS588i-2D 2D ring scanner delivers users a powerful way to improve efficiency to the next level.

### Features

- Lightweight and unique wearable ring design
- One-push rotate design allows right and left hand operation to switch easily
- Flexibility wireless design with 100M operation range
- Rugged and durable design with IP42 and 1.5m drops
- Changeable and rechargeable battery pack
- Full Shift Battery Life: Up to 13 Hours
- Mounted on two fingers to enhance the operation stability
- Companion "Unitech Scanner Utility" Android application offering Graphical User Interfaces and APIs that help users and developers to connect, configure, and retrieve data from with the scanner effortlessly. Supports devices running Android 5.0 and above.
- Instant decoding feedback: LED, Buzzer, and Vibrator indicators.

# MS588i-2D

## Specifications



### System

Connection	Connect to host with Windows, Android, or iOS
Memory	7.5Mbytes, store up to 590,000 of EAN13 codes
Keys	1 Scan Button

### Optical & Performance

Sensor	CMOS sensor with 640 x 400 pixel
Light Source	1 Hyper Red 660nm LED
Ambient Light	Max 107, 639 lux (direct sunlight)
Skew Angle	60 degrees
Pitch Angle Sensor	60 degrees
Printing Contrast Scale	minimum 20%
Scan Speed	30 frame /sec
Depth of Field (DOF PCS=80%)	SYMBOLGY / X-DIM TYPICAL RANGE*
	Near Far
	5 mil Code 39 2.0 in / 5.1 cm 6.4 in / 16.2 cm
	5 mil Code 128 2.5 in / 6.3 cm 5.0 in / 12.7 cm
	6.6 mil PDF417 2.5 in / 6.3 cm 6.3 in / 16.0 cm
	10 mil PDF417 1.8 in / 4.5 cm* 9.0 in / 22.8 cm
	13 mil 100% UPC 2.0 in / 5.0 cm* 12.5 in / 31.7 cm
	20 mil Code 39 2.0 in / 5.0 cm* 19.5 in / 49.5 cm
	20 mil Data Matrix 1.5 in / 3.8 cm 13.5 in / 34.3 cm
	20 mil QR Code 1.5 in / 3.8 cm 11.0 in / 27.9 cm

### Communication

Range	300ft/100M (Open space)
Host Interface supported	Micro USB
Protocol	BLE HID, BT SPP & HID profiles

### Mechanical

Scanner Dimension	50 x 71 x 21 mm
Scanner Weight	95g
Trigger Switch Life	1 million times

### Regulatory Approvals

CE, FCC, BSMI, VCCI, TELEC, NCC

### Functionality

Symbologies	1D: All major symbologies, TLC39, and PDF417  2D: QR Code, Data Matrix, Aztec Code, PDF417, Macro PDF417, Micro PDF417, MaxiCode, Coda block A, Codablock F, GS1Composite, Han Xin Code, Australian Post, British Post, Canadian Pos, InfoMail, Intelligent Mail Bar Code, Japanese Post, KIX (Netherlands) Post, GS1 Composite, Korea Post, Planet Code, Postal, Postnet
Operation Mode	Trigger mode, Presentation mode, Auto mode, Batch mode
Data Formatting	Prefix, Suffix, Code ID, Reformatting Date

### Electrical

Operation Voltage	DC 5V +/- 10%
Current Consumption	Operation mode: 160mA, Standby mode: 23mA Power off mode 1uA
RTC backup time	Support main battery replacement to keep RTC data within 5 mins.
Battery Type	Rechargeable Lithium-ion
Battery Capacity	800mAh / 3.7V
Charging Time	Fully charged in 4 hours
Operating Time	14 hours at 1 scan / 5 secs with good reading beep sound.
Charging Method	USB Cable or Battery Charging cradle

### Environmental

ESD Protection	Functional after 8K Contact and 12K Air
Mechanical Shock	1.5M onto concrete (scanner only)
Operating Temperature	-10°C to 50°C
Storage Temperature	-20°C to 60°C
Relative Humidity	95% non-condensing
IP Rating	IP42

### Accessories

Battery
Hand strap
Micro USB cable
Single slot cradle
4-Slot battery charger (optional)
5-Slot charging cradle

### What comes in the box

MS588i-2D Scanner with trigger module
Battery
USB charger cable
Wrist strap
Finger rubber pad
Two double sided tapes



Single slot cradle



4-Slot battery charger (optional)



5-Slot charging cradle

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# MS588-FS102

## Fixed Scanner

Easy to integrate into different type of equipments

ubon MS588-FS102 embedded 2D high performance barcode scanner with excellent reading performance, good bar code reading depth, easy to read various types of barcodes and mobile phone barcodes; easy to read barcode features It is used for retail POS checkout, mass transit ticket inspection and various action bar code payment, so that enterprises can easily match and apply to various scenarios.

The ubon MS588-FS102 mechanism is designed for easy installation, setup and use. It is suitable for all kinds of machines (such as KIOSK), price checking machines, vending machines or information workstations. The ubon MS588-FS102 is an excellent and cost-effective scanning co-worker.

### ■ Feature

- Can read all kinds of 1D and 2D barcodes
- Superior barcode reading performance, especially suitable for reading mobile barcode applications
- Lightweight and space-saving design, easy to fit and install on all kinds of machines
- Support USB and RS232 interface, easy to set up and maintain

**U**ibon

### ▶ Optics and performance

Scan engine	2D imager (640x 480 pixels)
Resolution	≥4mil
Light Source	Illumination: 6500K LED
Field of View	80° (H) x 64° (V)
Roll / Pitch / Yaw	360°, ±65°, ±60°
Contract	20%

### ▶ Communications

Interface	USB , RS232
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### ▶ Barcode types

1D	UPC, EAN, Code128, Code 39, Code 93, Code11, Matrix 2 of 5, Interleaved 2 of 5, Codabar, MSI Plessey, GS1 DataBar, China Postal, Korean Postal, etc.
2D	PDF417, MicroPDF417, Data Matrix, Maxicode, QR Code, MicroQR, Aztec, Hanxin, etc.

### ▶ Reading distance

(the actual reading distance may be affected by the installation environment)

6.88 mil (PDF417)	0mm - 50mm
10 mil (Data Matrix)	0mm - 50mm
13 mil (UPCA)	5mm - 110mm
20 mil (QR-CODE)	0mm - 100mm

### ▶ Appearance

Dimensions	77.5mm x 66mm x 45mm
Weight	75g
Voltage	3.3V~5 VDC / 200mA

### ▶ Environments

Relative Humidity	0% ~ 95% non-condensing
Operation Temp	-20°C~50°C
Storage Temp	-40°C~70°C
IP rating	IP65
Ambient Light Immunity	0~100,000 Lux.

