# M3 US20X | US20W

## Lightweight and rugged mobile handheld computer



- Android 10 GMS/AER
- 2.2GHz Octa core CPU
- 3 types keypad 30/42/51
- 2D Imager, Long-range Scanner
- Fast charging / Battery Hot Swap
- 16 MP Auto Focus Camera

M3 Mobile's US20 series is a lightweight, rugged mobile handheld computer that helps you handle your work more efficiently than ever before in the retail market as well as in the transportation and logistics. The US20 series supports the Android 10 operating system with a highend CPU, has customized displays and a variety of keypads, and offers many advantages, including a 16 MP rear camera. Also, the application solution, M3 SPEEDPACK (M3 application package) can be used to improve and manage device performance. The US20 series is waiting for users with a variety of scanner options, complete battery design, secure Android security support, and tremendous benefits.

## **Support 2.2 GHz Octacore processor and Android 10 platform**

With the 2.2 GHz Octa-core processor and support for the Android 10 platform, users can upgrade their productivity and efficiency.

## **Ergonomic Design, easy handling**

Easy to use with its lightweight, neat design and flexible curve aesthetics. Additionally, the display and the three keypads are designed with a sense of unity.

## Best application solution, M3 SPEEDPACK

M3 SPEEDPACK, an application solution developed by M3 Mobile. With this, you can fully manage your device. If you using the StartUp tool in M3 SPEEDPACK then the user can scan a few barcodes through your PC and device then thousands of devices can be customized and set up at once. Moreover, productivity and efficiency can be increased through various application tools.

## **Data Capture**

It supports a wide range of scanning options from 2D to Long-Range Scanner which can do reading by using the best scan engine, and It supports normal scanner engine also. Multi barcode reading is possible. It captures barcodes at once in any environment.

## User friendly Power as an option

By providing a 6,700mAh high-capacity battery, you can work all day long. The charging cradle and battery toaster enable faster and safer battery use than ever before. It also supports hot-swap functionality, allowing you to exchange batteries with confidence without turning off the device or shutting down the running app. 2,600mAh battery is ready for user who need light equipment.

## Android security and update support

M3 Mobile continues to provide security updates to help secure the device from the operating system, as well as future Android versions based on Google policy like GMS and AER.

## **Specification**

Physical Characteristics		
Dimensions	74 * 197.2 * 35.3mm / 2.91 * 7.76 * 1.38inch	
Weight	450g / 15.8oz (LR Scanner with Extended battery) 416g / 14.6oz (2D Scanner with Extended battery) 403g / 14.2oz (LR Scanner with Standard battery) 369g / 13oz (2D Scanner with Standard battery)	
Display	4.0" WVGA IPS, 480 x 800 pixels, Color Display	
Touchpanel	Corning Gorilla Glass supports dual input mode with finger, gloved finger and stylus (conductive stylus sold separately)	
Backlight	LED backlight display	
Expansion Slot	User accessible MicroSD with 32GB SDHC and up to 512GB SDXC	
SIM Slots (X model only)	2 micro SIM	
Network Connections	USB 2.0 High Speed OTG (host/client), WLAN, Bluetooth and WWAN	
Notification	Audible tone, multi-color LEDs, vibration	
Keypad	Numeric (30 key), Function Numeric (42 key), Alpha Numeric (51 key)	
Buttons	Buttons: Two programmable side scan keys	
Voice	Internal speaker, vibrate alert and Bluetooth wireless headset support; High quality speaker phone;	
Audio	Built-in speaker and microphone	
Performance Ch	naracteristics	
CPU	2.2 GHz Octa-core processor	
Operating System	Android 10 with M3 Mobile's StartUp for control over GMS and other services; will support future Android releases.	
Memory	4 GB/64 GB Flash	
Power	All models ship with rechargeable Li-Ion, 3.6V, 6700mAh Power Precision+ battery; full charge under five (5) hours; hot swap support with temporary WWAN/WLAN/ Bluetooth session persistence, 2600mAh batteries(optional)	
User Environme	ent	
Operating Temp.	-4° F to 140° F/-20° C to 60° C	
Storage Temp.	-22°F to 176°F/-30°C to 80°C	
Humidity	5% to 95% RH (Non-condensing)	
Drop Specifications	Multiple 6 ft./1.8 m drops to concrete across the operating temperature range per MIL-STD-810G	
Tumble Specification	1,000 3.3 ft. /1.0 m(2,000imes) tumbles; meets and exceeds IEC tumble specification	
Sealing	IP65	
Vibration	Sine: 4g's peak, 5hz to 2khz, Random: .04g²/hz, 20hz to 2khz	
Thermal Shock	-40° F to 158° F/-40° C to 70° C	
Electrostatic Discharge (ESD)	+/- 15kV air, +/-8kV contact discharge +/-8kV indirect contact discharge	

Interactive Sensor Technology (IST)

Automatically adjusts the brightness of the display

eCompass automatically detects direction and orientation

Light Sensor

Magnetometer sensor

Mation Consors	Gyro Sensor, Accelerometers: for X,Y, and Z movement,
Motion Sensors	and gyroscopes for measuring the extent and rate of rotation in space
Proximity Sensor	Detect the presence of nearby objects without any physical contact, during a telephone call, proximity sensors play a role in detecting accidental touchscreen taps
Data Capture	
	2D: 0° Scan(Straight Shooter) SE4770 2D: 45° Scan SE4770
Scanning	LR: 0° Scan(Straight Shooter) SE4850 ERI Optional: SE4750 MR
Rear Camera	16 M pixels auto-focus (AF), PDAF
NFC	ISO 14443 A/B, ISO 15693, Mifare, P2P mode and Card Emulation via Host (HCE) support
Wireless WAN D	ata AND VOICE COMMUNICATIONS (X model only)
Radio Frequency Band	LTE FDD: 800/850/900/1800/2100/2600 (1/3/5/7/8/20); LTE TDD: 1600/2300/2500 (38/40/41); UMTS/HSDPA/HSPA+: 850/900/2100(1/5/8); GSM/GPRS/EDGE: 900/1800 (3/8);
GPS	Autonomous, Concurrent GPS; GLONASS; Gallileo; Beidou, and A-GPS
Wireless LAN	
Radio	IEEE 802.11 a/b/g/n/ac/d/e/h/i/k/r/w, IPv4, IPv6, MU-MIMO
Operating Channels (depending on Regulatory)	Channel 1-13 (2412-2472 MHz): 1,2,3,4,5,6,7,8,9,10,11,12,13 Channel 36-165 (5180-5825 MHz): 36,40,44,48,52 56,60,64,100,104,108,112,116,120,124,128,132,136,1 40,144,149,153,157,161,165 Channel Bandwidth: 20, 40, 80 MHz Actual operating channels/ frequencies and bandwidths depend on regulatory rules and certification agency.
Security and Encryption	WEP (40 or 104 bit); WPA/WPA2 Personal (TKIP, and AES); WPA3 Personal (SAE); WPA/WPA2 Enterprise (TKIP and AES); WPA3 Enterprise (AES) — EAP-TTLS (PAP, MSCHAP, MSCHAPv2), EAP-TLS, PEAPv0-MSCHAPv2, PEAPv1-EAP-GTC, LEAP and EAP-PWD; WPA3 Enterprise 192-bit Mode (GCMP256) — EAP-TLS; Enhanced Open (OWE)
Fast Roam	PMKID caching; Cisco CCKM; 802.11r; OKC
Wireless PAN	
Bluetooth	Class 2, Bluetooth v4.1 with BR/EDR and Bluetooth Low Energy (BLE) Support
Regulatory	
FV/11/FV//	EN 301 489-1; EN 301 489-3; EN 301 489-17; EN 301 489-19; EN 301 489-5 EN IEC 61000-3-2; EN 61000-3-3; EN 55032; EN 55035 Class A
Electrical Safety	EN 62368-1
RF Exposure	EN 50360; EN 50566; EN 50663; EN62209-1; EN 62209-2; EN 62311; EN6
Environmental	Compliance
Directive 2011/6	5/EU, Directive(EU)2015/863
Warranty	
series are warrar	rms of M3 Mobile's hardware warranty statement, the US20 nted against defects in workmanship and materials for a period om the date of shipment. For complete warranty statement.

### **Recommended Services**

M3 Mobile speed care Essential and Select: Maximize M3 Mobile device availability, device value and operational efficiency with these fully-featured support services that set the industry bar for support.

#### **Footnotes**

- 1. Feature available Q4 2020
- 2. Upgrading to new supported version of Android requires the purchase of a M3 SPEED CARE service contract.

#### M3 Speedpack

"M3 Speedpack solutions help you get more value out of our mobile computers by adding functionality as well as simplifying deployment and management of our mobile devices. For more information on these M3 Mobile-only feature."

Application user manual http://www.m3mobile.net/en/products/solution-support/m3-speedpack

Startup PC User Manual http://www.m3mobile.net/en/products/solution-support/m3-speedpack

Startup PC for SOTI http://www.m3mobile.net/en/products/solution-support/m3-speedpack

 $\,$  M3 Speedpack is available on Android only. Features may vary by model and a Support Contract may be required.

#### **Service Center**

Chun-ui Techno Park 201-610, 202, Chunui-dong, Wonmi-gu, Bucheon, Gyeonggi-do, 420-857, Korea Tel: +82 32 623 0037 Fax: +82 70 4015 6323

Web site http://itc.m3mobile.net

E-mail Information Technology Team: it@m3mobile.co.kr

Customer Service Team: cs@m3mobile.co.kr

### **Accessories**

(Appearance can be changed.)









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