

M3 US20X / W

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, Smart Focus Scanner
- Fast charging / Battery Hot Swap
- 16 MP Auto Focus Camera

M3 Mobile's US20 series is a lightweight, rugged mobile handheld computer designed for enhanced efficiency in retail, transportation, and logistics. Running on Android 10, it boasts a high-end CPU, various keypad options, and a 16 MP rear camera. The device supports the M3 SPEEDPACK application solution for performance enhancement and management. With well-designed and numerous benefits, the US20 series is an ideal choice for users in diverse industries.



Numeric
(30 key)



Function Numeric
(42 key)

Alpha Numeric
(51 key)

2.2 GHz Octacore processor & Android 10

The 2.2 GHz Octa-core processor and Android 10 support empower users to elevate their productivity and efficiency.

Ergonomic Design, easy handling

Designed for user-friendly operation, the device features a lightweight and sleek design with flexible curve aesthetics. The display and three keypads are seamlessly integrated for a cohesive and intuitive user experience.

Best application solution, M3 SPEEDPACK

M3 SPEEDPACK, a proprietary application solution from M3 Mobile, enables comprehensive device management. The StartUp tool within M3 SPEEDPACK allows users to streamline customization and setup for thousands of devices simultaneously by scanning a few barcodes through both their PC and the device. This not only simplifies the configuration process but also enhances productivity and efficiency through a range of application tools.

Data Capture

The US20 series provides versatile scanning options, including 2D and Long-Range and Smart focus Scanners. This allows for multi-barcode reading, capturing barcodes simultaneously in any environment for efficient and reliable data collection.

User friendly Power as an option

Equipped with a high-capacity 6,700mAh battery, the US20 series ensures a full day of uninterrupted work. The inclusion of a charging cradle and battery toaster enhances both the speed and safety of battery usage. Additionally, the device supports hot-swap functionality, enabling users to exchange batteries without powering off the device or closing running applications.

Android security and update support

M3 Mobile is ensuring the security of its devices by consistently providing security updates. This includes safeguarding the device from potential threats in the operating system and adapting to future Android versions in compliance with Google policies such as GMS (Google Mobile Services) and AER (Android Enterprise Recommended).

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)
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 Characteristics	
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 battery; full charge under five (5) hours; hot swap support with temporary WWAN/WLAN/Bluetooth session persistence
User Environment	
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	3,000 3.3 ft. /1.0 m tumbles; meets and exceeds IEC tumble specification
Sealing	IP65
Vibration	Sine: 4g's peak, 5hz to 2khz, Random: .04g ² /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)	
Light Sensor	Automatically adjusts the brightness of the display
Magnetometer sensor	eCompass automatically detects direction and orientation
Motion Sensors	Gyro Sensor, Accelerometers: for X,Y, and Z movement, 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	
Scanning	2D: 0° Scan(Straight Shooter) SE4770 2D: 45° Scan SE4770 LR: 0° Scan(Straight Shooter) SE4850 ERI Optional: SE4750 MR Smart Focus : SE55
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 Data 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; Galileo; 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 56,60,64,100,104,108,112,116,120,124,128,132,136,140,144,149,153,157,161,165 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	
EMI/EMC	EN 301 489-1; EN 301 489-3; EN 55032; EN 55035 Class A
Electrical Safety	IEC 62368-1, EN 62368-1
RF Exposure	EU: EN 50364, EN 62369-1, EN 50566, EN 62311
Environmental Compliance	
Directive 2011/65/EU, Directive(EU)2015/863	
Warranty	
Subject to the terms of M3 Mobile's hardware warranty statement, the US20 series are warranted against defects in workmanship and materials for a period of 1 (one) year from 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.
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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/download/file/743>

Startup PC User Manual <http://www.m3mobile.net/download/file/748>

Startup PC for SOTI <http://www.m3mobile.net/download/file/746>

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

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Accessories

(Appearance can be changed.)



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