M3 SM20 X | W

Rugged Full-Touch Mobile Handheld Computer



- Android 11 GMS/AER (support up to 13) Extremely easy data capture
- Adreno 610 GPU (Enhanced Processing Smart Battery / Hot Swap Performance)
- Fast Wi-Fi and BT V5.1

- 16 MP Auto Focus Camera

M3 Mobile's SM20 series is the industry's first rugged full-touch mobile handheld computer with Android 11. Built on the highly successful SM15 series, the SM20 series supports the Android 11 operating system with a high-level high-end CPU design, equipped with a customized displays and smart batteries, and offers many advantages including a 16MP rear camera. In particular, more than 20 accessories are available, providing the best smartphone experience for all employees working indoors and outdoors. Device performance can also be improved and managed with the M3 SPEEDPACK (M3 Application Package). With multiple scanner options, complete battery design, and secure Android security support, the SM20 series are waiting for you.

Extremely Advanced Android platform

Equipped with advanced processors and the latest Android version, the SM20 series is the industry's first to introduce Android 11, providing the best platform support performance. Not only is it equipped with the latest Android OS, but it supports up to Android 13, so you can prepare for the future with a single SM20 device. M3 Mobile continues to provide security updates to help protect your device from the operating system, making it safe and long-lasting.

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.

Smart Power Systems

We designed a smart battery for efficient battery management. There will no longer be a decrease in the overall performance of the device due to the aging battery. We will manage it in advance with our differentiated battery system. The standard battery supports 8-10 hours of use. If your business hours are longer, use an extended battery.

Make it easier to use

It can be reborn as a complete handheld computer with more than 20 accessories. Accessories can be used to provide hands-free mobility for workers to take productivity to the next level. The long-range trigger handle also makes it easy to read a barcode at a distance of 15m.

Fast Wi-Fi and Bluetooth 5.1

SM20 is equipped with IEEE 802.11 ax-ready and ac Wave, which takes advantage of 802.11ac to add efficiency, flexibility and scalability, allowing increased speed, capacity and nextgeneration applications to new and existing networks. It also supports Bluetooth 5.1, increasing the application flexibility of peripherals, reducing the power required for Bluetooth, and extending the battery life of the device.

Specification

Physical Characteristics

Physical Characteristics		
Dimensions	76.4 x 154.6 x 22 mm	
Weight	270 g (including standard battery)	
Display	5.0" HD IPS, 1280 x 720 pixels	
Touchpanel	Corning Gorilla Glass touch panel 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)	1 Mini SIM. 1 eSIM	
Network Connections	USB 2.0 High Speed OTG (host/client), WLAN, Bluetooth and WWAN	
Notification	Audible tone, multi-color LEDs, vibration	
Keypad	Volume + / - key, Camera key, Power key 2 Scanner keys (Left, Right), 4 Bottom keys (Home, Back, Menu, Enter (Scan))	
Voice	Internal speaker, Two microphone with noise cancellation; vibrate alert and Bluetooth wireless headset support; High quality speaker phone;	
Audio	Built-in speaker and microphone	
Performance Ch	naracteristics	
CPU	Qualcomm® Snapdragon™ 662 (SDM6115) Octa core processor 2.0Ghz With Adreno 610 GPU	
Operating System	Android 11(Up to Android 13) with M3 Mobile's StartUp for control over GMS and other services; will support future Android releases committed support for Android 14 and Android 15, pending feasibility.	
Memory	DDR4 4GB/64GB UFS Flash	
Power	All models ship with rechargeable Li-Ion, 3.8V, 4,100mAh smart battery, hot swap support with temporary WWAN/WLAN/Bluetooth session persistence, 6,150mAh Extended batteries(optional)	
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	1.2m / 1.8m (with bumper boot)	
Tumble Specification	0.5M/1000Cycle, 1M/500Cycle (with Boots)	
Sealing	IP65 / IP67 (Optional)	
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)		
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	SE4710 Optional: SE4750 MR, SE4720	
Rear Camera	Front CAM: 5M pixels, Rear CAM16 M pixels auto-focus (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	Support VoLTE LTE FDD: 800/850/900/1800/2100/2600 (1/3/5/7/8/20); LTE TDD: 2600/2300/2500 (38/40/41); UMTS/HSDPA/HSPA+: 850/900/2100(1/5/8); GSM/GPRS/EDGE: 850/900/1800 (3/5/8);	
GPS	GPS/Glonass/BeiDou/Galileo/QZSS/SBAS/NavIC(IRNSS)	
Wireless LAN		
Radio	IEEE 802.11 a/b/g/n/ac/d/e/h/i/k/r/w, ax-ready, ac Wave 2	
Data Rates	5GHz: 802.11a/n/ac/ax — up to 433 Mbps 2.4GHz: 802.11b/g/n — up to 72 Mbps	
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	Bluetooth 5.1 Bluetooth Low Energy (BLE) Support	
Regulatory		
EMI/EMC	EN 301 489-1; EN 301 489-3; EN 55024; EN 55032 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 2011/6	5/EU, Directive(EU)2015/863	
Warranty		
Subject to the terms of M3 Mobile's hardware warranty statement, the SM20 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

Feature available Q4 2021

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/products /mobile-computer?tpf=product/ view&category_code=10&code=201
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.)



2 slot charging / ethernet / **HDMI** cradle



USB Charging Snap on / UHF Snap on



8 slot charging / ethernet cradle



Trigger Handle / Long range Trigger Handle / UHF GUN



Holster



Arm Band



Vehicle cradle

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