

M3 SM20 X | F

Rugged Full-Touch Mobile Handheld Computer

Kreski

Zapraszamy do kontaktu!
Więcej informacji: www.kreski.pl



- Android 11 GMS/AER (support up to 13)
- Adreno 610 GPU (Enhanced Processing Performance)
- Fast Wi-Fi and BT V5.1
- Anti-fog technology keeps the screen clear and visible (F Ver.)
- Extremely easy data capture
- Smart Battery / Hot Swap
- 16 MP Auto Focus Camera
- Smart Focus Scanner

M3 Mobile's SM20 series is an innovative mobile handheld computer that runs on Android 11. It features a full-touch, rugged design, a high-performance CPU, a custom-optimized display, and a 16MP rear camera to improve work efficiency. With over 20 accessory options and the M3 SPEEDPACK, this device is designed for both indoor and outdoor use. The SM20 series also offers robust security features and multiple scanning options, as well as a smart battery and user-friendly design to maximize productivity.

The SM20F model revolutionizes cold weather operations with its anti-fog technology and low-temperature battery technology, providing seamless and efficient performance that sets a new standard in its class.

Advanced Android platform

The SM20 series is an advanced Android platform equipped with advanced processors and the latest Android version. It's the industry's first to introduce Android 11, providing the best platform support performance. The device also supports up to Android 13, enabling users to prepare for the future with a single SM20 device. M3 Mobile provides security updates to protect the device from the operating system, ensuring its longevity and safety.

Smart Power Systems

Our intelligent battery system utilizes advanced battery management techniques to mitigate performance degradation caused by aging batteries. It enables active management of battery usage, providing up to 8-10 hours of battery time.

Make it easier to use

By utilizing over 20 available accessories, the device can be transformed into a fully functional handheld computer, thereby enabling workers to maximize their productivity. Furthermore, the long-range trigger handle allows for convenient scanning of barcodes from a distance of up to 15 meters.

Fast Wi-Fi and Bluetooth 5.1

The SM20 is equipped with IEEE 802.11ax and 802.11ac Wave, enabling increased speed, capacity, and support for next-generation applications, while providing greater efficiency, flexibility, and scalability to both new and existing networks. Additionally, it supports Bluetooth 5.1, which improves the device's application flexibility for peripherals, reduces power consumption, and extends battery life.

Best application solution, M3 SPEEDPACK

M3Mobile has developed an application solution called the M3 SPEEDPACK, which provides full device management capabilities. By utilizing the StartUp tool in M3 SPEEDPACK, users can easily customize and set up thousands of devices at once by scanning a few barcodes on both their PC and device. Additionally, various application tools within M3 SPEEDPACK can further enhance productivity and efficiency.

NEW Smart Focus Scanner

The Smart Focus Scanner offers scanner operating distances ranging from a minimum of 5.6 cm to a maximum of 12.2 m, making it suitable for use in various environments without requiring additional accessories for reading long-distance barcodes. Furthermore, it incorporates a 4MP high-resolution sensor, along with a green laser aimer that enhances visibility and enables quick and accurate barcode reading under different lighting conditions, thereby improving operator efficiency.

Anti-fog technology & low-temperature battery (F Ver.)

M3MOBILE's low-temperature technology design allows the SM20F to operate with a clear, non-fogging screen even at temperatures as low as minus 30 degrees, making it an indicator in the cold chain industry. In addition, the device's special batteries are designed to provide ample working time in low temperatures, enabling it to perform well in even the most extreme environments.

Specification

Physical Characteristics		Interactive Sensor Technology (IST)	
Dimensions	76.4 x 154.6 x 22 mm	Light Sensor	Automatically adjusts the brightness of the display
Weight	270 g (including standard battery)	Magnetometer sensor	eCompass automatically detects direction and orientation
Display	5.0" HD IPS, 1280 x 720 pixels	Motion Sensors	Gyro Sensor, Accelerometers: for X,Y, and Z movement, and gyroscopes for measuring the extent and rate of rotation in space
Touchpanel	Corning Gorilla Glass touch panel supports dual input mode with finger, gloved finger and stylus (conductive stylus sold separately)	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
Backlight	LED backlight display	Data Capture	
Expansion Slot	User accessible MicroSD with 32GB SDHC and up to 512GB SDXC	Scanning	SE4710, SE55
SIM Slots	1 Mini SIM. 1 eSIM	Rear Camera	Front CAM : 5M pixels, Rear CAM16 M pixels auto-focus (PDAF)
Network Connections	USB 2.0 High Speed OTG (host/client), WLAN, Bluetooth and WWAN	NFC	ISO 14443 A/B, ISO 15693, Mifare, P2P mode and Card Emulation via Host (HCE) support
Notification	Audible tone, multi-color LEDs, vibration	Wireless WAN Data AND VOICE COMMUNICATIONS (X model only)	
Keypad	Volume + / - key, Camera key, Power key 2 Scanner keys (Left, Right), 4 Bottom keys (Home, Back, Menu, Enter (Scan))	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);
Voice	Internal speaker, Two microphone with noise cancellation; vibrate alert and Bluetooth wireless headset support; High quality speaker phone;	GPS	GPS/Glonass/BeiDou/Galileo/QZSS/SBAS/NavIC(IRNSS)
Audio	Built-in speaker and microphone	Wireless LAN	
Performance Characteristics		Radio	IEEE 802.11 a/b/g/n/ac/d/e/h/i/k/r/w, ax-ready, ac Wave 2
CPU	Qualcomm® Snapdragon™ 662 (SM6115) Octa core processor 2.0Ghz With Adreno 610 GPU	Data Rates	5GHz: 802.11a/n/ac/ax — up to 433 Mbps 2.4GHz: 802.11b/g/n — up to 72 Mbps
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.	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.
Memory	DDR4 4GB/64GB UFS Flash	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)
Power	SM20 : Li-Ion, 3.8V, 4,100mAh smart battery, hot swap support with temporary WWAN/WLAN/Bluetooth session persistence. SM20F : Li-Ion, 3.8V, 4,100mAh hot swap support, designed for high performance in low temperatures.	Fast Roam	PMKID caching; Cisco CCKM; 802.11r; OKC
User Environment		Wireless PAN	
Operating Temp.	SM20 : -4° F to 140° F / -20° C to 60° C SM20F : -22° F to 140° F / -30° C to 60° C	Bluetooth	Bluetooth 5.1 Bluetooth Low Energy (BLE) Support
Storage Temp.	SM20 : -22° F to 176° F / -30° C to 80° C SM20F : -40° F to 176° F / -40° C to 80° C	Regulatory	
Humidity	5% to 95% RH (Non-condensing)	EMI/EMC	EN 301 489-1; EN 301 489-3; EN 55024; EN 55032 Class A
Drop Specifications	1.2m / 1.8m (with bumper boot)	Electrical Safety	IEC 62368-1, EN 62368-1
Tumble Specification	0.5M/1000Cycle, 1M/500Cycle (with Boots)	RF Exposure	EU: EN 50364, EN 62369-1, EN 50566, EN 62311
Sealing	IP65 / IP67 (Optional)		
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		

Environmental Compliance

Directive 2011/65/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 Q3 2022

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 / Startup PC for SOTI / Startup PC User Manual

<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

Kreski

Zapraszamy do kontaktu!

Więcej informacji: www.kreski.pl

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 /
UHF GUN



Holster



Arm Band



Vehicle cradle

Head Office

Tel: +82 2 574 0037
Fax: +82 2 558 1253
www.m3mobile.net,
sales@m3mobile.co.kr
sales_kr@m3mobile.co.kr

German Office

Tel +49 61929222148
sales_eu@m3mobile.net

France Office

Mobile +33-(0)686550492
sales_eu@m3mobile.net

UK Office

Tel +49 61929222148
sales_eu@m3mobile.net

Spain Office

Mobile +49 61929222148
sales_eu@m3mobile.net

Turkey Office

Tel +90 070-4801-0358
Mobile +90 533 049 41 30
sales@m3mobile.co.kr