

# M3 SL20 +

A slim, beautiful, and durable mobile computer



- Android 13 to 15 GMS / AER
- 2.0GHz Octa core CPU
- 2D Imager
- 5.5-inch Display
- Replaceable Battery
- 5,000mAh Battery
- Fast charging / Battery Hotswap
- IP67

The M3 MOBILE SL20+ is designed to be versatile, serving a wide range of business sectors from retail to beyond. If you're looking for a better working environment, choose the SL20+. Despite its slim design, the large 5.5-inch display allows users to comfortably execute tasks. The display supports glove touch and can be used even with wet hands, making it ideal for various situations.

With a powerful 5,000mAh battery, the SL20+ keeps you going throughout the day. It operates on Android 13 and supports future Android versions. The combination of 8GB RAM and 128GB ROM enables faster and more efficient usage. Utilizing the M3 SPEEDPACK (M3 application package) further enhances your productivity. The SL20+, ergonomically designed for one-handed use and lightweight, is ready to elevate your business experience.

## 2.0 GHz Octa-Core Processor and Android 13 Platform with Update Support

With a 2.0 GHz Octa-Core Processor and Android 13 Platform Support, the device provides continuous security updates to ensure its safety. Additionally, it supports future Android versions, offering users ongoing stability and security for their convenience.

## Lightweight and Ergonomic Design

The SL20 features a lightweight design, weighing just 250g, making it easy to fit into a pocket. Its ergonomic design allows for comfortable one-handed use, and the large 5.5-inch display enhances user convenience.

## High-Capacity Battery & Hot-Swap

The SL20 is equipped with a high-capacity 5,000mAh battery, providing a full day of work without needing to recharge. Additionally, it supports hot-swap functionality, allowing users to replace the battery without turning off the device or closing active apps.

## Proven SL20 Product for Consumers

The SL20 is renowned for its stability, earning high praise from consumers for its exceptional performance. Its robust design ensures outstanding durability, making it a reliable choice for users in various demanding environments.

# Specification

Physical Characteristics	
Dimensions	2.86 x 6.17 x 0.69 inch 72.7 x 156.8 x 17.55 mm
Weight	8.81oz / 250g (Inclusive battery)
Display	5.5 in. color HD (1440 x 720); Corning® Gorilla® Glass
Touchpanel	supports dual input mode with finger, gloved finger
Backlight	LED backlight display
Expansion Slot	User accessible MicroSD with up to 1TB
SIM Slots (X model Only)	Dual SIM; 1 nano SIM, 1 eSIM
Network Connections	USB 2.0 High Speed OTG (host/client); Type C connector, WLAN, Bluetooth and WWAN
Notification	Audible tone, multi-color LEDs, vibration
Keypad	On-screen keypad
Buttons	Buttons : 5 programmable side scan keys + power button
Voice and Audio	Internal speaker, Two microphone with noise cancellation; vibrate alert and Bluetooth wireless headset support; High quality speaker phone; 1 Watt Built-in speaker and microphone
Performance Characteristics	
CPU	2.0 GHz Octa-core processor
Operating System	Android 13 to 15 with M3 Mobile's StartUp for control over GMS and other services; will support future Android releases. * Subject to technical feasibility
Memory	4 GB/64 GB Flash 8 GB/128 GB Flash (Optional)
Power	All models ship with rechargeable Li-Ion Polymer, 3.8V, 5000mAh battery; hot swap support with temporary WWAN/WLAN/Bluetooth session persistence,
User Environment	
Operating Temp.	-4° F to 131° F/-20° C to 55° C
Storage Temp.	-22°F to 176°F/-30°C to 80°C
Humidity	5% to 95% non-condensing
Drop Specifications	Multiple 6 ft./1.5 m drops to concrete across the operating temperature range per MIL-STD-810G
Tumble Specification	1,000 3.3 ft. /0.5 m tumbles; meets and exceeds IEC tumble specification
Sealing	IP67
Vibration	Sine: 4g's peak, 5hz to 2khz, Random: .04g"/hz, 20hz to 2khz 60 minute duration per axis, 3 axis
Thermal Shock	-40° F to 176° F/-40° C to 80° C rapid transition
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 imager (1D and 2D) with extraordinary range: Scan range - Code 39 barcode: 20 Mil: 2.0 in. to 30.0in./5.08cm to 76.2cm 4 Mil: 3.3 in. to 8.8 in./8.4cm to 22.4cm  E5 imager (2D)
Camera	Rear camera 13 MP; front camera 5 MP
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	Support VoLTE LTE FDD: 700/800/850/900/1700/1800/1900/2100/2600 (1/2/3/4/5/7/8/19/20/28); LTE TDD: 1600/2300/2500 (38/40/41); UMTS/HSDPA/HSPA+: 850/900/1800/1900/2100(1/2/3/4/5/8); GSM/GPRS/EDGE: 850/900/1800/1900 (2/3/5/8);
GNSS	Autonomous, Concurrent GPS; GLONASS; Galileo; Beidou, and A-GPS
Wireless LAN	
Radio	IEEE 802.11 a/b/g/n/ac/d/e/h/i/j/k/r/v, IPv4, IPv6, 1X1 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); WPA/ WPA2 Enterprise (TKIP and AES) – EAP-TTLS (PAP, MSCHAP, MSCHAPv2), EAP-TLS, PEAPv0-MSCHAPv2, PEAPv1-EAP-GTC and LEAP.EAP-PWD
Fast Roam	PMKID caching; Cisco CCKM; 802.11r; OKC
Wireless PAN	
Bluetooth	Bluetooth 5.0 BLE, Class 2
Regulatory	
EMI/EMC	EN 301-489-1; EN301 489-3; EN301-489-17; EN301-489-19; EN 61000-3-2; EN 61000-3-3; EN 55032; EN 55035 Class A
Electrical Safety	EN 62368-1
RF Exposure	EN 50360; EN 62209-1; EN50663; EN62209-2; EN 50566; EN 62479

Environmental Compliance

Directive 2011/65/EU, Directive(EU)2015/863

Warranty

Subject to the terms of M3 MOBILE's hardware warranty statement, the SL20 series are warranted against defects in workmanship and materials for a period of 1 (one) year from the date of shipment. For complete warranty statemen

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 2024

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](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

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Customer Service Team: [cs@m3mobile.co.kr](mailto:cs@m3mobile.co.kr)

Accessories

(Appearance can be changed.)



1-Slot Charging Cradle  
SL20-1CRD-C00



2-Slot Charging & USB Cradle  
SL20-2CRD-CC0



2-Slot Charging & Ethernet Cradle  
SL20-2CRD-EC0



Rubber Boot  
SL20-BOOT-01



8-Slot Charging Cradle  
SL20-8CRD-C00



8-Slot Charging & Ethernet Cradle  
SL20-8CRD-EC0



Trigger Handle  
SL20-TRIG-S00

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