



M3 Mobile SL20 – Compact powerhouse

- ✓ Optimum performance in compact dimensions, weighing only 236 g
- ✓ 5.45 inch display for optimal presentation of information
- ✓ Fast hardware and Android 11 for trouble-free multitasking
- ✓ Powerful barcode scan engine for fast captures
- ✓ IP67 protection and rugged construction for use in demanding environments

Features

Readable codes: 1D, 2D, NFC

Display: 5.45 inch, 1440 x 720 px, Corning Gorilla Glass

Operating system: Android 11

Processor: 2.3 GHz Octa-Core

Memory: 4 GB RAM, 64 GB flash

Feedback: LED, sound and vibration

Buttons: 5 programmable + power button

Connectivity: WLAN, Bluetooth, cellular, USB-C

Additional features: 13 MP + 5MP camera, GPS, motion sensors

Battery: 3000 mAh / 5000mAh, hot swap

Protection: IP67, drop-proof up to 1.5 m

Operating temperature: -20 - 55 °C

Dimensions (W x L x H): 73 x 157 x 17.5 mm

Weight: 236 g

Optional accessories

Charging station

2- & 8-way docking station (unit + battery)

Gungrip

Armholster

Hand strap

Protective cover

Display protection film

Physical Characteristics

Dimensions	6.17 in. L x 2.86 in. W x 0.69 in. D 156.8 mm L x 72.7 mm W x 17.55 mm D
Weight	8.32oz / 236g (Standard battery) 8.81oz / 250g (Extended battery)
Display	5.45 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 512GB SDXC
SIM Slots	1 nano SIM, 1 PSAM
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	2.3 GHz Octa-core processor
Operating System	Android 11 with M3 Mobile's StartUp for control over GMS and other services; will support future Android releases.
Memory	4 GB/64 GB Flash
Power	Standard : 3000mAh Extended : 5000mAh 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.	-40°F to 167°F/-40°C to 75°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 ² /hz, 20hz to 2khz 60 minute duration per axis, 3 axis
Thermal Shock	-22° F to 158° F/-30° C to 70° 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)
Camera	Rear camera 13 MP; front camera 5 MP
NFC	ISO 14443 A/B, ISO 15693, Mifare

Wireless WAN Data AND VOICE COMMUNICATIONS

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);
GPS	Autonomous, Concurrent GPS; GLONASS; Galileo; Beidou, and A-GPS

Wireless LAN

Radio	IEEE 802.11 802.11 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
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Regulatory

EMI/EMC	EN 301 489-1; EN 301 489-3; EN 55024; EN 55032 Class A
Electrical Safety	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	
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