

SM24 X | W

A smart choice that delivers top performance at a reasonable cost.



Product Spec

- Android 16 (support up to 19)
- 4G / Wi-Fi 6E (802.11ax)
- Tap on Screen Payment
- RAM 8GB / ROM 128GB
- 12.9mm thin, 240g light (4,000 mAh Battery)
- MIL-STD-810H

The SM24 is a TCO-optimized mobile computer that delivers essential enterprise functionality while minimizing deployment and maintenance costs. With Android 16 and support through Android 19, along with 8GB RAM and 128GB ROM, it provides long-term usability and reliable performance for business-critical applications. Wi-Fi 6E, 4G connectivity, and Tap-on-Screen Payment enable flexible and efficient workflows, while its slim 12.9mm profile and lightweight 240g design enhance user comfort throughout the workday. In addition, MIL-STD-810H-certified durability helps reduce downtime and repair costs, maximizing operational efficiency and long-term cost savings.

Long-Term Android Support for Lower TCO

With Android 16 and support through Android 19, the SM24 helps extend device lifecycle and reduce replacement frequency. This future-ready platform minimizes upgrade and management costs while ensuring long-term compatibility with enterprise applications.

Fast and Reliable Connectivity with 4G and Wi-Fi 6E

Equipped with 4G and Wi-Fi 6E (802.11ax), the SM24 delivers stable and high-speed connectivity across warehouses, retail stores, and field environments. Reliable wireless performance helps improve productivity and supports uninterrupted business operations.

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Integrated Tap-on-Screen Payment

The built-in Tap-on-Screen Payment capability enables secure contactless transactions without additional payment hardware. This streamlined approach enhances operational flexibility while reducing deployment complexity and equipment costs.

Optimized Performance with 8GB RAM and 128GB Storage

Featuring 8GB RAM and 128GB ROM, the SM24 provides smooth multitasking and responsive application performance. Ample memory and storage capacity support daily enterprise workflows while ensuring efficient operation over time.

Slim and Lightweight Design for All-Day Comfort

At just 12.9mm thin and 240g with the 4,000mAh battery, the SM24 is designed for comfortable all-day use. Its ergonomic form factor reduces user fatigue and improves productivity during extended work shifts.

Enterprise-Class Durability with MIL-STD-810H

Tested to MIL-STD-810H standards, the SM24 is built to withstand demanding business environments. Its rugged design helps reduce downtime, maintenance requirements, and total ownership costs throughout the device lifecycle.

Specification

	SM24 X		SM24 W
Physical Characteristics			
Dimensions	77 x 167 x 12.9 mm		
Weight	240g		
Display	6 Inch HD+ (720 X 1440)		
Touchpanel	Corning® Gorilla® 5 Glass touch panel. supports dual input mode with finger, gloved finger		
Backlight	LED backlight display		
Expansion Slot	User accessible MicroSD card supports up to 2 TB		
SIM Slots (X model only)	Dual SIM : 1 Nano SIM and 1 eSIM	-	
Interface	USB-C, POGO		
Notification	Audible tone, multi-color LEDs, vibration		
Keypad	5 PROGRAMABLE SIDE SCAN KEYS + PW BUTTON		
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 Characteristics			
CPU	2.4 GHz Octa-core processor (Qualcomm SM6225)		
Operating System	Android 16(Up to Android 19) with M3 Mobile's StartUp for control over GMS and other services; will support future Android releases committed support for Android 17, 18, 19 pending feasibility.		
Memory	8/128GB		
Power	All models come standard with a rechargeable Li-Ion 3.85V, 4,000mAh hard pack smart battery and support hot-swap functionality that temporarily maintains WWAN/WLAN/Bluetooth sessions. A 6,000mAh extended battery (optional) is also available.		
Data Capture			
Scanning	2D Imager (CM60E)		
Rear Camera	Front CAM : 8M pixels, Rear CAM : 16 M pixels auto-focus (PDAF)		
NFC	ISO 14443 Type A and B; FeliCa and ISO 15693		
Wireless WAN Data AND VOICE COMMUNICATIONS (X model only)			
Radio Frequency Band	2G: 850/900/1800/1900 3G: 1/2/3/4/5/8 4G: B1/2/3/4/5/7/8/20/28/38/39/40/41	-	
GPS	GPS, GLONASS, Galileo, Beidou, QZSS Dual-Band	-	
Wireless LAN			
Radio	IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v/w/ax; 2x2 MU-MIMO; Wi-Fi 6E (801.11ax);		
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		
RF Exposure	EU: EN 50364, EN 62369-1, EN 50566, EN 62311		

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Wireless PAN		
Bluetooth	Bluetooth 5.3 BLE	
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	
Cyber Security	EN18031-1, EN18031-2	
User Environment		
Operating Temp.	- 20° C to 50° C / -4° F to 122° F	
Storage Temp.	- 30°C to 70°C / - 22°F to 158°F	
Humidity	5% to 95% RH (Non-condensing)	
Drop Specifications	1.5m, 1.8m (with Boot) drops to concrete across the operating temperature range per MIL-STD-810H	
Tumble Specification	2,000 times 1.6ft. /0.5 m tumbles; without boot 1,000 times 3.2ft. /1 m tumbles; with boot	
Sealing	IP67	
Vibration	4 g's PK Sine (5 Hz to 2 kHz); 0.04g2/Hz Random (20 Hz to 2 kHz); 60 minute duration per axis, 3 axis	
Thermal Shock	-40° C to 80° C rapid transition	
Electrostatic Discharge (ESD)	+/- 15kv air, +/-8kv 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	
Environmental Compliance	Directive 2011/65/EU, Directive(EU)2015/863	
Warranty	Subject to the terms of M3 Mobile's hardware warranty statement, the SM30 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.	
Footnotes	Feature available Q3 2026	
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.		

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