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SM24 X | W

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



Product Spec

- 2.4 GHz Octa-core (Qualcomm SM6225)
- Android 16 (support up to 18)
- 4G / Wi-Fi 6E (802.11ax)
- 6 Inch HD+
- RAM 8GB / ROM 128GB
- IP67 / MIL-STD-810H

The SM24 is a TCO-optimized device that focuses on essential functionality, delivering reliable performance with its 2.4GHz octa-core processor and support for Android 16–18 while keeping overall costs low. Its HD+ display and single scanner configuration reduce power consumption and complexity, greatly improving operational efficiency and lowering maintenance expenses. In addition, Wi-Fi 6E, IP67 protection, and 1.8m drop resistance ensure stable operation even in harsh environments, while 4000/6000mAh battery options and USB-C/POGO expandability support long shifts and diverse workflows—maximizing long-term cost savings.

Value-Oriented Performance

With its 2.4GHz octa-core processor and support for Android 16–18, the SM24 delivers modern performance while offering a more cost-efficient configuration compared to competing products—making it highly favorable for TCO reduction and particularly suitable for budget-focused warehouse and retail customers.

Enhanced Readability and Usability with a 6-inch HD+ Display

The HD+ (720×1440) display reduces power consumption to improve battery efficiency while lowering overall costs, providing an optimized viewing experience for lightweight, app-focused tasks such as inventory checks and inbound/outbound operations.

M3 MOBILE

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Simplified and Reliable Operation with a Single Scanner Configuration

The single-scanner setup reduces decision complexity and streamlines the device structure, making project deployment and inventory management easier while offering advantages for customers seeking standardized scanning specifications.

Optimized for Stable Indoor Operations with Advanced Wireless Technology

With support for Wi-Fi 6E (802.11ax) and 2×2 MU-MIMO, the SM24 delivers seamless and stable performance even in large retail stores, warehouses, and production lines where many devices connect simultaneously, offering exceptional efficiency in high-density AP environments.

Front-Side NFC for Global Standards

The front-side (LCD-side) NFC supports ISO 14443 A/B, FeliCa, ISO 15693, and 13.56 MHz, ensuring broad compatibility with global NFC standards and enabling stable, efficient contactless workflows.

Superior Durability for Its Class (IP67 · 1.8m)

Despite being a cost-optimized model, the SM24 maintains robust durability with 1.8m drop resistance (with boots), 2,000 tumbles, and an IP67 rating, ensuring reliable operation even in harsh industrial environments with dust, moisture, and impact—delivering strong protection while keeping overall costs efficient.

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 18) with M3 Mobile's StartUp for control over GMS and other services; will support future Android releases committed support for Android 17 and 18, 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)	
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 certifi cation 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	

Specification

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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	1,000 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 SM24 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 Q1 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.		

M3 MOBILE

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