SM30 X W

Rugged Full-Touch Mobile Handheld Computer with Qualcomm Dragonwing™ QCM6490



Product Spec

- Qualcomm Dragonwing™ QCM6490 high-performance
 2.7 GHz Octa-core
- Android 14 GMS (support up to 18)
- 5G / Wi-Fi 6E (802.11ax)
- · Bluetooth 5.3 BLE, Class 2. BLE for Beaconing
- IP68 / MIL-STD-810H

The SM30 is equipped with the Qualcomm Dragonwing™ QCM6490 processor, delivering high-performance data processing at speeds of up to 2.7GHz. It also features Al-based image analysis and high-speed barcode scanning, significantly enhancing workplace efficiency and performance. Designed for seamless operation, the SM30 ensures stable performance and maximizes productivity across various work environments. Additionally, it supports Android 14 through the upcoming Android 18, ensuring long-term software compatibility and regular security updates. With advanced wireless connectivity, enhanced security features, and Al & IoT optimizations, the SM30 maximizes operational efficiency and guarantees long-term device longevity.

High-Speed & Stable Data Processing

The SM30 supports Wi-Fi 6E (802.11ax) with a maximum speed of 9.6Gbps, providing 40% faster wireless network performance compared to Wi-Fi 5 (802.11ac). It minimizes speed degradation even when multiple devices transmit data simultaneously and prevents network interference in multi-AP environments. In non-Wi-Fi environments, it supports 2G to 5G networks, enabling ultra-fast data upload and download, while ensuring stable connectivity even with multiple device connection

AI-Enhanced Work Environment

The SM30, powered by AI capable of 12 trillion operations per second, significantly improves barcode and QR code scanning speeds and automatically corrects or removes noise from damaged or blurry codes for rapid recognition. Equipped with the Hexagon NPU, it delivers exceptional performance in QCR (Quick Capture Recognition) and image recognition, enabling the fast and accurate detection and categorization of defective products and parts in real time. Since all AI processing is performed directly on the PDA, these AI functions can operate without an internet connection or cloud server, ensuring reliable and efficient performance in any environment.

SM30 X | W



Smart Location Management with BLE Beaconing

M3 Mobile's latest device, the SM30, is equipped with Bluetooth Low Energy (BLE) beaconing technology to enable real-time asset tracking and efficient operations. Without the need for device pairing, it ensures stable location tracking across large workspaces and continues to transmit BLE signals even when powered off— supporting accurate indoor positioning with minimal battery consumption. This technology is highly effective for asset identification and location-based automation across industries such as logistics, retail, and transportation.

Real-Time Device Management with the Device Locator App

Built on BLE beaconing, the SM30 comes pre-installed with the Device Locator App, ready to use with no additional setup. The app utilizes BLE signals to provide precise realtime location tracking— even when the device is turned off—and features a remote sound alert function to help quickly locate misplaced devices. It is especially effective in environments requiring simultaneous management of multiple devices, significantly improving productivity and operational safety.

All-Day Long Battery Life

The SM30 comes with a standard 5,000mAh battery and an optional 7,000mAh battery, allowing 12 to 24 hours of continuous use on a single charge. Even when utilizing high-performance Al and advanced wireless functions, frequent battery swaps are unnecessary, reducing downtime and cutting costs on additional batteries and chargers. In addition, the energy-efficient Qualcomm QCM6490 chipset built on a 6nm process optimizes power consumption across all operations, while the Hexagon NPU's highly efficient Al computation architecture minimizes energy usage during intensive Al workloads, extending battery life without compromising performance.

Exceptional Durability, Reliable Performance in Extreme Environments

This industrial PDA boasts an IP68 rating for water and dust resistance, and is certified with the MIL-STD-810H military standard, ensuring exceptional durability even in extreme conditions. It delivers stable performance in harsh working environments, such as rain, dust, and shock, maximizing operational efficiency in the field.

Specification

	SM30 X	SM30 W		
Physical Characteristics				
Dimensions	78.5 x 161.64 x 17.5 mm	78.5 x 161.64 x 17.5 mm		
Weight	297 g	297 g		
Display	5.7 inch FHD (1080 x 1920)	5.7 inch FHD (1080 x 1920)		
Touchpanel	Corning® Gorilla® 5 Glass touch panel with air gap; supports du (conductive stylus sold separately)	Corning® Gorilla® 5 Glass touch panel with air gap; supports dual input mode with finger, gloved finger and stylus (conductive stylus sold separately)		
Backlight	LED backlight display	LED backlight display		
Expansion Slot	User accessible MicroSD card supports up to 2 TB	User accessible MicroSD card supports up to 2 TB		
SIM Slots (X model only)	Dual SIM : 1 Nano SIM and 1 eSIM			
Network Connections	USB 3.1 High Speed OTG (host/client); USB-C Connector			
Notification	Audible tone, multi-color LEDs, vibration	Audible tone, multi-color LEDs, vibration		
Keypad	4 Physical Buttons on the Bottom 5 Programmable Side Scan Keys + Power Button	· ·		
Voice	Internal speaker, Two microphone with noise cancellation; vibrat quality speaker phone;	Internal speaker, Two microphone with noise cancellation; vibrate alert and Bluetooth wireless headset support; High quality speaker phone;		
Audio	Built-in speaker and microphone	Built-in speaker and microphone		
Performance Characteristics				
CPU	2.7 GHz Octa-core processor Qualcomm Dragonwing™ QCM64	2.7 GHz Octa-core processor Qualcomm Dragonwing™ QCM6490		
Operating System		Android 14(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 15, 16, 17 and 18, pending feasibility.		
Memory	DDR4 8GB/128GB UFS Flash	DDR4 8GB/128GB UFS Flash		
Power		All models come standard with a rechargeable Li-lon 3.8V, 5,000mAh hard pack smart battery and support hot-swap functionality that temporarily maintains WWAN/WLAN/Bluetooth sessions. A 7,000mAh extended battery (optional) i also available.		
Data Capture				
Scanning	2D Imager (SE4770), Smart Focus (SE5500)	2D Imager (SE4770), Smart Focus (SE5500)		
Rear Camera	Front CAM: 8M pixels, Rear CAM: 16 M pixels auto-focus (PDA	Front CAM : 8M pixels, Rear CAM : 16 M pixels auto-focus (PDAF)		
NFC	ISO 14443 Type A and B; FeliCa and ISO 15693 cards; Card Emu	ISO 14443 Type A and B; FeliCa and ISO 15693 cards; Card Emulation via Host		
Wireless WAN Data AND VOICE	COMMUNICATIONS (X model only)			
Radio Frequency Band	5G FR1: n1/2/3/5/7/8/20/28/38/40/41/66/71/77/78; 4G: B1/2/3/4/5/7/8/13/17/20/28/38/39/40/41/42/43/ 66/71; 3G: 1/2/4/5/8 2G: 850, 900, 1800, 1900			
GPS	GPS, GLONASS, Galileo, Beidou, QZSS Dual-Band GNSS—concurrent L1/G1/E1/B1 (GPS/ QZSS, GLO, GAL, BeiDou) + L5/E5a/BDSB2a (GPS/ QZSS, GAL, BeiDou); a-GPS; supports XTRA			
Wireless LAN				
Radio	IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v/w/mc/ax; 2x2 MU-MIMO; W	IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v/w/mc/ax; 2x2 MU-MIMO; Wi-Fi 6E (802.11ax); Dual Band Simultaneous; IPv4, IPv		
Operating Channels (depending on Regulatory)	Channel Bandwidth: 20, 40, 80 MHz	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		
Security and Encryption	MSCHAPv2), EAP-TLS, PEAPv0-MSCHAPv2, PEAPv1-EAP-GTC,	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)		

Specification

	SM30 X	SM30 W	
Wireless PAN			
Bluetooth	Bluetooth 5.3 BLE, Class 2 BLE for beaconing		
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 55° C / -4° F to 131° F		
Storage Temp.	- 40°C to 80°C / - 40°F to 176°F		
Humidity	5% to 95% RH (Non-condensing)	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	IP68	IP68	
Vibration	Sine: 4g's peak, 5hz to 2khz, Random: .04g²/hz, 20hz to 2khz		
Thermal Shock	-30° C to 70° C rapid transition	-30° C to 70° C rapid transition	
Electrostatic Discharge (ESD)	+/- 15kV air, +/-8kV contact discharge +/-8kV indirect contact discharge		
Interactive Sensor Technology (IS	ST)		
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 2025		
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 S	SOTI / Startup PC User Manual http://www.m3mobile.net/en/products/solu	tion-support/m3-speedpack	
	y. Features may vary by model and a Support Contract may be required.		

Accessories

(Appearance can be changed.)

1 slot cradle 2 slot cradle 4 slot cradle







Boots Trigger Handle 4 slot battery charger







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