M3 MOBILE

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UL30 W | F

A high-performance industrial rugged computer built to withstand both extreme cold and heavy impacts



Product Spec

- Qualcomm Dragonwing™ QCS6490 high-performance 2.7 GHz Octa-core
- Android 14 GMS/AER (Support up to 18)
- Wi-Fi 6E
- 8GB RAM / 128GB ROM
- Bluetooth 5.3 V, BLE for Beaconing
- IP67 / MIL-STD-810H
- Equipped with Scan-Window Heater & LCD Back Heater functions. (F model)

The UL30 is equipped with the Qualcomm® QCS6490 platform, delivering powerful performance and superior connectivity. Built on a 6nm process, the 2.7GHz octa-core processor provides exceptional speed for multitasking, data processing, and AI operations, while supporting the latest wireless technologies such as Wi-Fi 6E and Bluetooth 5.3, ensuring a stable and fast communication environment anywhere. In addition, the UL30 guarantees long-term software support and offers exceptional durability — it withstands 6,000 repeated drops in a rotating barrel test (with boots) and survives direct drops from up to 3 meters, ensuring stable operation even in demanding enterprise environments.

High-Performance Enterprise Mobile Computer with Qualcomm QCS6490

The UL30 is equipped with the top-tier Qualcomm QCS6490 chipset, delivering outstanding performance even in industrial environments. This enables seamless Wi-Fi 6E connectivity, and with 2x2 MU-MIMO technology, it can transmit data simultaneously to multiple devices, ensuring fast and stable communication even in congested network conditions. Additionally, the 2.7GHz octa-core processor provides excellent multitasking performance, handling multiple apps and data processing tasks simultaneously, while the 6nm process design enhances power efficiency for long-lasting and reliable battery operation. In particular, the Hexagon NPU, the built-in AI engine of the QCS6490, delivers exceptional performance in QCR (Quick Capture Recognition) and image recognition tasks, significantly improving data processing and operational efficiency in industrial settings.

Smart Asset and Personnel Tracking with Location-Based Automation

The UL30 enables real-time tracking of assets and personnel in both indoor and outdoor environments. Even across large workspaces, it provides stable and efficient location tracking without the need for device pairing, while minimizing battery consumption. Additionally, this technology supports location-based automation (e.g., sending notifications, logging data, automating workflows), enhancing operational efficiency, asset management, and productivity across industries such as logistics, retail, distribution, and manufacturing.

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Scanner and Keypad Options Customizable to User Environment

Users can choose between a 2D barcode scanner (SE4770) or a long-range barcode scanner (SE5800). Additionally, there are three keypad options-28-key, 35-key, and 53-key-allowing selection of the scanner and keypad type according to the user's needs.

Proven Durability Through Thousands of Drop Tests

With its Boots attached, the UL30 endures 6,000 rotating-barrel free-fall cycles at 1m and withstands direct drops from 3m, proving exceptional durability even in the harshest environments. It is certified with IP67 water and dust resistance and complies with the MIL-STD-81 OH military standard, making it a truly rugged device. Ideal for logistics, manufacturing, and construction environments, the UL30 is built to withstand repeated impact and harsh field conditions with confidence.

All-Day Long Battery Life

The UL30 comes with a standard 6,700mAh battery. The energy-efficient Qualcomm QCS6490 chipset, built on a 6nm process, optimizes power consumption across all tasks, while the Hexagon NPU's highly efficient AI computation architecture further minimizes energy usage, ensuring optimal performance without unnecessary power drain.

F(Frozen) Model Specialized for LowTemperature Environments

The UL30 offers an F (Frozen) model designed to operate reliably in low-temperature working conditions from -30°C to 60°C. Equipped with a battery optimized for cold environments, it ensures stable performance and continuous operation even in harsh freezing conditions.

Specification

	UL30 W	UL30 F
Physical Characteristics		
Dimensions	88.7 x 244.75 x 46.19 mm	
Weight	530 g	
Display	5 inch FHD (1920X1080)	
Touchpanel	Corning® Gorilla® Glass 3 supports dual input mode with finger, gloved finger	
Back Light	LED backlight display	
Expansion Slot	User accessible MicroSD with 256GB SDXC	
Network Connections	USB C Type via Snap on, Cradle	
Notification	Audible tone, multi-color LEDs, vibration	
Keypad	6 programmable side keys 28key, 35key , 53 key optional	
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	2.7 GHz Octa-core processor Qualcomm Dragonwing™ QCS6490	
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	
Power	All models come standard with a rechargeable Li-Ion 3.8V, 6,700mAh hard pack smart battery and support hot-swap functionality that temporarily maintains WWAN/WLAN/Bluetooth sessions.	
Data Capture		
Scanning	2D Imager (SE4770), Long Range (SE5800)	
Rear Camera	Rear CAM : 16 M pixels auto-focus (PDAF)	
NFC	ISO 14443 A/B, ISO 15693, Mifare HF 13.56MHz	
Wireless LAN		
Radio	IEEE 802.11 802.11 a/b/g/n/ac/ax/d/e/h/i/j/k/r/V 2X2 MU-MIMO Wi-Fi 6E	
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 {TKI P, 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	
Wireless PAN		
Bluetooth	Bluetooth v5.3, 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	

Specification

	UL30 W	UL30 F
User Environment		
Operating Temp.	-20°C to 55°C (-4°F to 131 °F)	-30”C to 60°C (-22°F to 140°F)
Storage Temp.	-30°C to 80°C (-22°F to 176°F)	-40°C to 80°C (-40°F to 176°F)
Humidity	5% to 95% RH (Non-condensing)	
Drop Specifications	3M (With Boot) 2M (Without Boot) drops to concrete across the operating temperature range per MIL-STD-810H	
Tumble Specification	6,000 times 3.2ft / 1M (With Boot) 4,000 times 3.2ft / 1M (Without Boot)	
Sealing	IP67	
Vibration	Sine: 4g’s peak, 5hz to 2khz, Random: .0492/hz, 20hz to 2khz 60 minute duration per axis, 3 axis	
Thermal Shock	-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	
Environmental Compliance	Directive 2011/65/EU, Directive(EU)2015/863	
Warranty	Subject to the terms of M3 Mobile’s hardware warranty statement, the UL30 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.	
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 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 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.		

Accessories

(Appearance can be changed.)

2 slot cradle
(Device, Spare Battery, USB)



8 slot cradle



Hand Strap



Boots



Forklift/Vehicle charging station



Trigger Handle



4 slot smart Battery charger



16 slot smart Battery charger



C-type USB snapon



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