



M20L

Rugged AI Tablet



Rugged Tablet PC M20L

Performance to a New Level



Powered by the Intel® Core™ Ultra 5 Processor 226V, the M20L delivers powerful AI computing in a rugged, field-ready design. Built for demanding environments, it combines high performance, long battery life, and reliable connectivity for uninterrupted mission-critical operations.

- Intel Core™ Ultra 5 processor 226V with up to 40 TOPS AI performance
- 16GB RAM and a 256GB PCIe SSD for smooth multitasking
- Rugged IP65 & MIL-STD-810H design for harsh environments
- 12.2" FHD, 700 nits display for outdoor visibility
- Large & small batteries for all-day, sustained performance
- Industrial-grade connectivity including Thunderbolt 4, BT 5.4, 1000M RJ45



Durability	<ul style="list-style-type: none">IP65 compliantMIL-STD-810H certified4ft, 26 drops (each side, edge, and corner)±8kV contact discharge, ±15kV air discharge	Network & Connectivity	<ul style="list-style-type: none">Optional 5GGPS, Glonass
Operating System	<ul style="list-style-type: none">Windows 11 ProOptional Windows 11 Home/IOT	Security	<ul style="list-style-type: none">Integrated TPM 2.0Fingerprint scannerOptional HF-RFID (NFC) reader
Processor	<ul style="list-style-type: none">Intel Core™ Ultra 5 processor 226V (8MB cache, up to 4.5GHz, 8 cores, 8 threads, TDP 17W)Optional Intel Core™ Ultra 7 processor 256V (12MB cache, up to 4.8GHz, 8 cores, 8 threads,TDP 17W)Optional Intel Core™ Ultra 7 processor 258V (12MB cache, up to 4.8GHz, 8 cores, 8 threads,TDP 17W)	Data Capture	<ul style="list-style-type: none">Optional 1D/2D barcode reader
Graphics	<ul style="list-style-type: none">Intel® Arc™ 130V/140V GPU	I/O Interface	<ul style="list-style-type: none">Micro SD card x 1SIM card x1USB 3.2 (Type-A) x1Thunderbolt 4 (Type-C) x13.5 mm audio jack x1HDMI 2.1a mini x15.5 mm DC in jack x112-pin Pogo pin (charge & USB) x1
Memory	<ul style="list-style-type: none">16GB LPDDR5x on board (Ultra 5 Processor 226V/ Ultra 7 Processor 256V)32GB LPDDR5x on board (Ultra 7 processor 258V)	4-in-1 Module	<ul style="list-style-type: none">Default 10/100/1000M Ethernet (RJ45) x1Optional serial port (RS232: D-sub, 9-pin) x1Optional USB 2.0 (Type-A) x1Optional 1D/2D barcode reader x1
Storage	<ul style="list-style-type: none">256GB PCIe SSDOptional 512GB/1TB PCIe SSD	Battery & Charging	<ul style="list-style-type: none">Li-ion battery, 7.4V, 6300mAh, 9.6hLi-ion battery, 7.4V, 860mAhSeparate 3V/210mAh RTCAC adapter: 100–240V, 50Hz–60Hz, 64.98W (19V/3.42A)
Display	<ul style="list-style-type: none">12.2” FHD (1200 x 1920), 700 nits10-point capacitive touch screen, supports glove touch	Environment	<ul style="list-style-type: none">Operating temperature: –20°C to 60°C (–4°F to 140°F)Storage temperature: –30°C to 70°C (–22°F to 158°F)Humidity: 95% (non-condensing)
Audio	<ul style="list-style-type: none">Integrated 1W speakerIntegrated microphoneClass K	Dimension	<ul style="list-style-type: none">340.15 mm (L) × 231.23 mm (W) × 26.19 mm (H)
Camera	<ul style="list-style-type: none">MF 5.0 MP front cameraAF 13.0 MP rear camera and flashlight	Weight	<ul style="list-style-type: none">1500g
Keyboard & Input	<ul style="list-style-type: none">5 buttons (user-definable key x1)	Accessories	<ul style="list-style-type: none">Standard: Adapter, Cable AC, Hand strap, Carry handle,Optional: Docking charger, Vehicle mount, Removable battery, Quad charging dock
Network & Connectivity	<ul style="list-style-type: none">Intel® Wi-Fi 6E (802.11 ax)Bluetooth® 5.44G LTE LTE-FDD: B1/3/5/7/8/20/28 LTE-TDD: B38/40/41 WCDMA: B1/5/8 GSM: /Optional 4G LTE LTE-FDD: B2/4/5/12/13/17/18/25/26 LTE-TDD: B41 WCDMA: B2/4/5 CDMA & EVDO: BC0/BC1 GSM: 850/1900Optional 4G LTE LTE-FDD: B2/4/5/7/8/28 LTE-TDD: B40 WCDMA: B2/5/8 GSM: 850/900/1900	Warranty	<ul style="list-style-type: none">One-year limited warranty standard

1. Please contact your sales representative for feature availability.

2. Battery life data is provided by Emdoor’s laboratory. Default test conditions: 300 nits display brightness, 30 cm/70 dB sound level. Actual results may vary depending on test environments and methods.

3. Certified to MIL-STD-810H and IP standards. For specific test items and methods, please refer to the latest official test report.

4. Body dimensions and weight are measured by Emdoor’s laboratory. Variations may occur due to measurement methods and manufacturing processes.

5. All product images, specifications, user interface, and features are for reference only and may vary by production batch or other factors. All information is subject to change without prior notice.

ACCESSORIES

Standard



AdapterCable ACHand StrapCarry Handle

Optional



Docking ChargerVehicle MountRemovable BatteryQuad Charging Dock

CONTACT US

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