



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	- IP65 compliant - MIL-STD-810H certified 4ft, 26 drops (each side, edge, and corner) ±8kV contact discharge, ±15kV air discharge
Operating System	- Windows 11 Pro - Optional Windows 11 Home/IOT
Processor	- 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)
Graphics	Intel® Arc™ 130V/140V GPU
Memory	16GB LPDDR5x on board - Optional 32GB LPDDR5x on board (Ultra 7 processor 258V)
Storage	256GB PCIe SSD - Optional 512GB/1TB PCIe SSD
Display	12.2" FHD (1200 x 1920), 700 nits 10-point capacitive touch screen, supports glove touch
Audio	- Integrated 1W speaker - Integrated microphone - Class K
Camera	- MF 5.0 MP front camera - AF 13.0 MP rear camera and flashlight
Keyboard & Input	5 buttons (user-definable key x1)
Network & Connectivity	- Intel® Wi-Fi 6E (802.11 ax) - Bluetooth® 5.4 4G 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: 850/1900 - Optional 4G LTE - LTE-FDD: B2/4/5/7/8/28 - LTE-TDD: B40 - WCDMA: B2/5/8 - GSM: 850/900/1900

Network & Connectivity	- Optional 5G - GPS, Glonass
Security	- Integrated TPM 2.0 - Fingerprint scanner - Optional HF-RFID (NFC) reader
Data Capture	Optional 1D/2D barcode reader
I/O Interface	- Micro SD card x1 - SIM card x1 - USB 3.2 (Type-A) x1 - Thunderbolt 4 (Type-C) x1 3.5 mm audio jack x1 - HDMI 2.1a mini x1 5.5 mm DC in jack x1 12-pin Pogo pin (charge & USB) x1
4-in-1 Module	- Default 10/100/1000M Ethernet (RJ45) x1 - Optional serial port (RS232: D-sub, 9-pin) x1 - Optional USB 2.0 (Type-A) x1 - Optional 1D/2D barcode reader x1
Battery & Charging	- Li-ion battery, 7.4V, 6300mAh, 9.6h - Li-ion battery, 7.4V, 860mAh - Separate 3V/210mAh RTC - AC adapter: 100–240V, 50Hz–60Hz, 64.98W (19V/3.42A)
Environment	- 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)
Dimension	340.15 mm (L) × 231.23 mm (W) × 26.19 mm (H)
Weight	1500g
Accessories	- Standard: Adapter, Cable AC, Hand strap, Carry handle, - Optional: Docking charger, Vehicle mount, Removable battery, Quad charging dock
Warranty	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



Adapter



Cable AC



Hand Strap



Carry Handle

Optional



Docking Charger



Vehicle Mount



Removable Battery



Quad Charging Dock

CONTACT US

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