



EM-I20L

Rugged AI Tablet





Rugged Tablet PC EM-I20L

Performance to a New Level



Powered by the Intel® Core™ Ultra 5 Processor 226V, the EM-I20L 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 · 32GB LPDDR5x on board (Ultra 7 processor 258V)
Storage	· 256GB PCIe SSD · Optional 512GB/1TB PCIe SSD
Display	· 12.2", FHD (1920 x 1200), 700 nits · 10-point capacitive touch screen, supports GP930 active pen
Audio	· Integrated 1W speaker x1 · Integrated microphone x1 · Class K
Camera	· MF 2.0 MP front camera · AF 13.0 MP rear camera
Keyboard & Input	· 5 buttons (1 user-definable key)
Network & Connectivity	· Intel® Wi-Fi 6E (802.11 ax) · Bluetooth® V5.4 · 4G LTE - LTE-FDD: B1/3/5/7/8/20/28 - LTE-TDD: B38/40/41 - WCDMA: B1/5/8 - GSM: / · Optional 4G - LTE-FDD: B2/4/5/12/13/17/18/25/26 - LTE-TDD: B41 - WCDMA: B2/4/5 - CDMA & EVDO: BC0/BC1 · GSM: 850/1900

Network & Connectivity	· Optional 4G - LTE-FDD: B2/4/5/7/8/28 - LTE-TDD: B40 - WCDMA: B2/5/8 - GSM: 850/900/1900 · Optional 5G · GPS/GLONASS module
Security	· Fingerprint scanner · Integrated TPM2.0 · 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 Gen2 (Type-A) x1 · Thunderbolt 4 x1 · 3.5mm audio jack x1 · HDMI 2.0a mini x1 · 5.5mm DC in jack x1 · 12-pin Pogo pin x1 (charge & USB)
4 in 1 Module	· Default 10/100/1000 Ethernet (RJ45) x1 · Optional Serial port (RS232: D-sub, 9-pin) x1 · USB2.0 (Type-A) x1 · Optional 1D/2D barcode reader x1
Battery & Charging	· AC adapter: 100-240V, 50Hz-60Hz, 64.98W (19V/3.42A) · Li-ion battery, 7.4V, 6300mAh, 11h · Li-ion battery, 7.4V, 860mAh · Separate 3V/210mAh RTC
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	· 339.3 mm (L) × 230.3 mm (W) × 26 mm (H)
Weight	· 1500g
Accessories	· Standard: Adapter, Cable, 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



Hand Strap



Carry Handle

Optional



Docking Charger



Vehicle Mount



Removable Battery



Quad Charging Dock

Poindus Systems Corp. Headquarters
5F, No.59, Ln. 77, Xing-Ai Rd., Neihu Dist.,
Taipei City 114, Taiwan. R.O.C

+886 2 7721 4688
www.poindus.com
sales@poindus.com

Varlink Limited
Unit 1 Osbaldwick Industrial Estate,
Outgang Lane, York, YO19 5UX, UK.

+ 44 1904 717180
www.varlink.co.uk

ADASYS GmbH
Max-Planck-Str. 10 70806
Kornwestheim, Deutschland

+ 49 7154 83000
www.adasys.de

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COMPAL GROUP