



0.00 EUR

incl. 19% VAT, plus shipping

- **Mini-ITX !**
- **Intel Atom N250 !**
- **2x HDMI, 1x Type C DP !**
- **MTX-TWL1-N2500210 !**

- Power by Onboard Intel® Processor N-Series (formerly Twin Lake)
- Versatile Display Options: Support 1 x Type C DP, 2 x 4K HDMI® and 1 x LVDS/eDP Outputs
- Dual Ethernet Ports: 2 x 2.5GbE for fast and reliable networking
- Storage Expansion: 1 x SATAIII, 1 x M.2 M-key NVMe
- Additional Expansion: 1 x M.2 E-key, 1 x M.2 B-key
- Comprehensive I/O: 1 x USB 3.2, 1 x USB 3.2 Type C, 2 x USB 2.0 and 6 x COM ports
- Wide Range Power Input: DC-in 12–28V for robust industrial flexibility
- Security Enhance: Support Onboard TPM2.0

SYSTEM

MB FORM FACTOR

Mini-ITX

CPU

Onboard Intel Atom® N250 Processor (Formerly Twin Lake, TDP 6W)

CHIPSET

Intel® SoC

MEMORY

1 x DDR5 4800MT/s, Single Channel SO-DIMM, up to 32GB

BIOS

UEFI

WAKE ON LAN

Yes

WATCHDOG TIMER

255 Levels

| | |
|--------------------|---|
| SECURITY | TPM2.0 |
| RTC BATTERY | Lithium Battery |
| DIMENSION (W X D) | 170.0 (W) x 170.0 (D) mm (6.7" x 6.7") |
| OS SUPPORT | Windows® 11 (64bit), Windows® 10 (64bit), Linux |
| POWER | |
| POWER REQUIREMENT | DC-in 12~28V |
| POWER ON MODE | AT / ATX |
| CONNECTOR | DC Jack 4-pin Header |
| DISPLAY | |
| GPU | Intel® UHD Graphics |
| LVDS | 1 x 24-bit Dual Channel LVDS (Max. Resolution: 1920 x 1080 @60Hz / Co-Lay eDP) |
| Type-C DP | 1 x Type-C DP1.4 (Max Resolution: 4096 x 2160@60Hz) |
| HDMI® | 2 x HDMI® 2.0b (Max Resolution: 4096 x 2160@60Hz) |
| MULTIPLE DISPLAY | Support 3 Displays |
| AUDIO | |
| CODEC | Realtek Audio Codec |
| COMBO | 1 x Combo Audio Jack for Line-Out / Mic-In |
| AMPLIFIER | 3W |
| LAN | |
| ETHERNET | 2 x RJ45 for Intel® I226-V 2.5GbE |
| USB PORT | |
| USB | 1 x USB 3.2 Gen 2x1 (10Gbps, Formerly USB 3.1 Gen 2) 1 x USB 3.2 Gen 2x1 Type-C (10Gbps) Support DP ALT Mode 2 x USB 2.0 Internal Header for 4 x USB 2.0 |
| SERIAL PORT | |
| COM | 1 x DB-9 for RS-232/422/485 with 5V/12V header Internal Header for 5 x RS-232 with 5V/12V header |
| INTERNAL I/O | |
| GPIO | 8-Bit |
| SMBUS | Yes |
| FAN | 1 x CPU Fan Header 1 x System Fan Header |
| FRONT PANEL | HDD Active LED, Power On/Off, Power LED, Reset |
| ADDITIONAL STORAGE | 1 x PS/2 |

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|-----------------------------|--|
| SATA | 1 x SATA III 1 x SATA Power Connector |
| EXPANSION | |
| M.2 | 1 x M-Key 2242/2280 (SATA/PCIe 3.0 x2) Support NVMe 1 x E-Key 2230 (USB 2.0/PCIe 3.0 x1) Support CNVi 1 x B-Key 3042/3052 (USB 3.2/USB 2.0) for 4G/ 5G Module 1 x Nano SIM Card Slot |
| SIM | |
| ENVIRONMENT & CERTIFICATION | |
| SHOCK | 15G, 11ms duration |
| VIBRATION | 1 Grms/ 5~ 500Hz/ Operation |
| OPERATING TEMPERATURE | -20°C ~ 60°C (-4°F ~ 140°F) |
| STORAGE TEMPERATURE | -20°C ~ 85°C (-4°F ~ 185°F) |
| OPERATING HUMIDITY | 10 ~ 90% Relative Humidity, Non-condensing |
| CERTIFICATION | CE/FCC Class A |
| Packing List: | MTX-TWL1 MB I/O Shield Heatsink COM Port Cable SATA Cable SATA Power Y Cable |