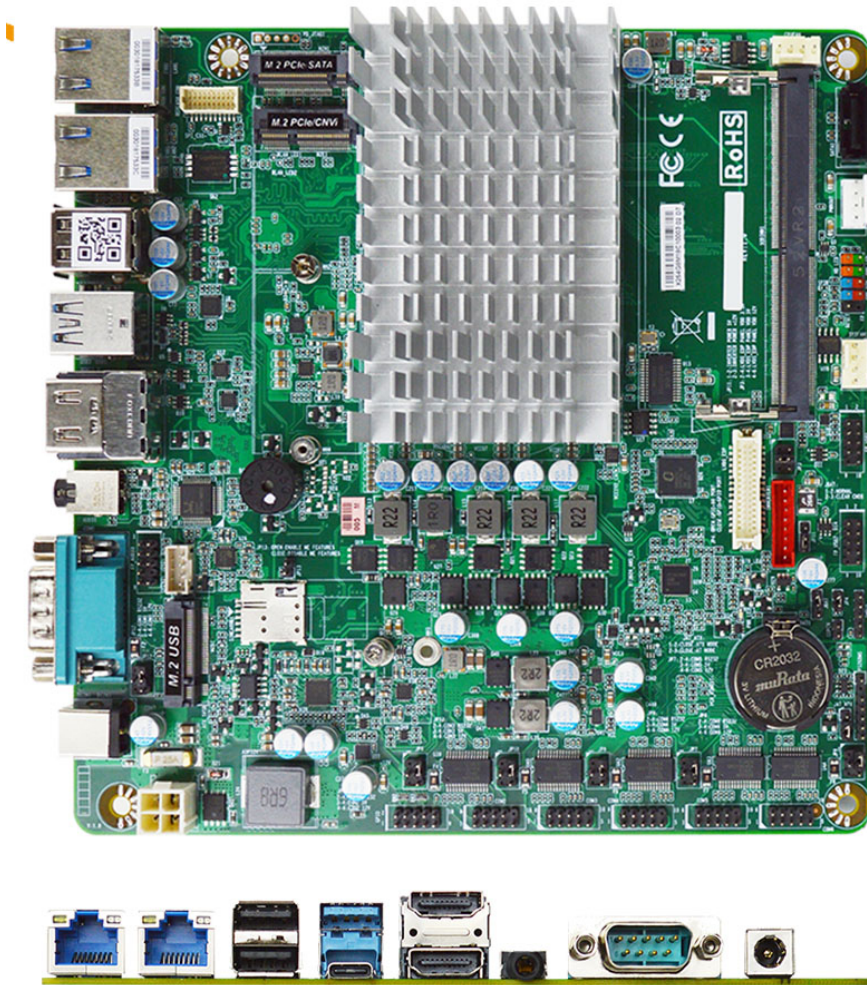


389.00 EUR

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

CPU

CHIPSET

MEMORY

BIOS

WAKE ON LAN

WATCHDOG TIMER

SECURITY

RTC BATTERY

DIMENSION (W X D)

Mini-ITX

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

Intel® SoC

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

UEFI

Yes

255 Levels

TPM2.0

Lithium Battery

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<br>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)<br>1 x USB 3.2 Gen 2x1 Type-C (10Gbps) Support DP ALT Mode<br>2 x USB 2.0<br>Internal Header for 4 x USB 2.0                            |
| SERIAL PORT                 |                                                                                                                                                                                              |
| COM                         | 1 x DB-9 for RS-232/422/485 with 5V/12V header<br>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<br>1 x System Fan Header                                                                                                                                                  |
| FRONT PANEL                 | HDD Active LED, Power On/Off, Power LED, Reset                                                                                                                                               |
| ADDITIONAL                  | 1 x PS/2                                                                                                                                                                                     |
| STORAGE                     |                                                                                                                                                                                              |
| SATA                        | 1 x SATA III<br>1 x SATA Power Connector                                                                                                                                                     |
| EXPANSION                   |                                                                                                                                                                                              |
| M.2                         | 1 x M-Key 2242/2280 (SATA/PCIe 3.0 x2) Support NVMe<br>1 x E-Key 2230 (USB 2.0/PCIe 3.0 x1) Support CNVi<br>1 x B-Key 3042/3052 (USB 3.2/USB 2.0) for 4G/5G Module<br>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<br>MTX-TWL1 MB<br>I/O Schield<br>Heatsink<br>COM Port Cable<br>SATA Cable<br>SATA Power Y Cable                                                                               |
| Packing List:               |                                                                                                                                                                                              |