

Conception®-jX-v4.2-U100

Compact and fanless high performance embedded PC with one PCIe slot and Intel® Core™ Ultra CPUs

Features

- High-Performance with Intel® Core™ Ultra CPUs
- One PCIe (Gen 4) expansion slot
- Passive cooling for flexible and quiet use
- Ultra-compact design
- USB-C & 3x 2.5 GBit LAN for high-speed data transfer
- Optional Wi-Fi/Bluetooth, GNSS/LTE

Configuration example

Further configurations on request!

Mainboard:

Industrial Mainboard (mini-ITX), 24/7 operation, long-term available

Processor:

Intel® Core™ Ultra, 100 series

Graphic:

Onboard Intel® Iris® Xe (depends on CPU)

Memory:

2x DDR5 S0-DIMM, max. 64 GB

Drive Bays:

1x M.2 (M-key, type: 2280)
2x 2.5" (optional)

I/O:

3x 2.5 GBit LAN (RJ45)
4x USB 3.2
2x USB-C 3.2
2x USB 2.0
2x RS-232/422/485
1x DisplayPort 1.4a, DP++
1x HDMI 2.0a
3x Audio (Line-In, Line-Out, Mic)
1x Digital I/O (optional)

Operating System:

Microsoft® Windows® 10/11, Linux®

Power Supply:

11 ~ 32 VDC, 120 Watt
XLR connector (Neutrik) four-pin
XLR conn. incl.

Optional

ext. power supply 100 ~ 264 VAC
XLR angled plug 90°

Expansions:

1x M.2 (E-key, type: 2230)
1x M.2 (B-key, type: 3052)
1x SIM slot
1x PCIe x4 (Gen 4) via riser card

Communication:

Wi-Fi/Bluetooth (optional)
Intel® M.2 Module, 802.11ax Dual Band, Bluetooth® 5.1
GNSS/LTE (optional)
Support for GPS, GLONASS, BeiDou, Galileo, QZSS
SIM slot for 3G/4G/5G

Mechanical:

Chassis

1 mm sheet steel, powder coated
Heat sink extruded aluminum profile

Dimensions (W x H x D)

200 x 126 x 210 mm

Cooling

Passive

Environment:

Operating Temperature

0° ~ 50° C

Storage Temperature

-20° ~ 70° C

Relative Humidity (operation)

10 ~ 90 % (non condensing)

IP Protection

IP20

Features:

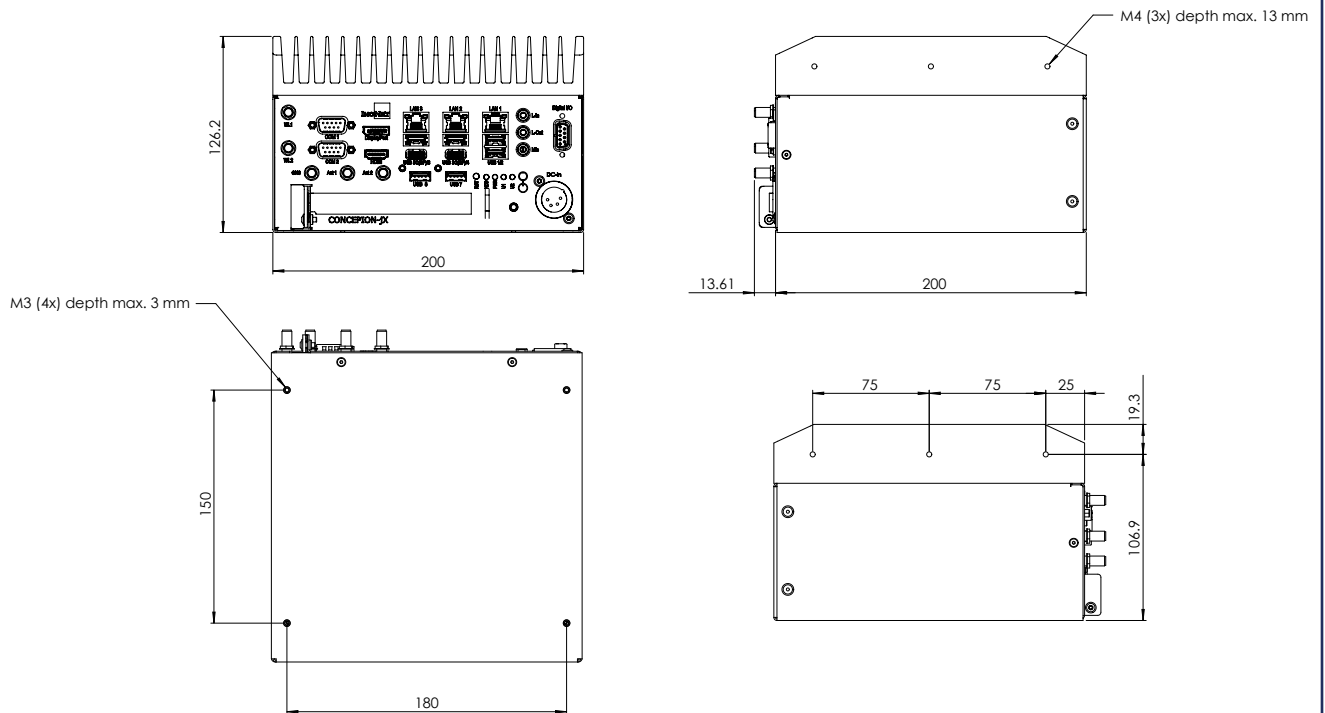
Watchdog Timer, iAMT 18.0, fTPM



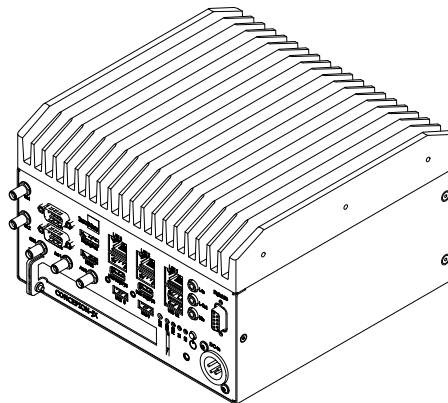
Conception®-jX-v4.2-U100

Additional illustrations

Technical drawing



Unit: mm



InoNet Competences and Services



Consulting



Development



Testing



Customization



Manufacturing



Certifications

InoNet Computer GmbH
Wettersteinstraße 18
82024 Taufkirchen, Germany
www.inonet.com