INONET
A EUROTECH COMPANY

Concepion®-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 SO-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:
12 ~ 24 VDC
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/G5

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



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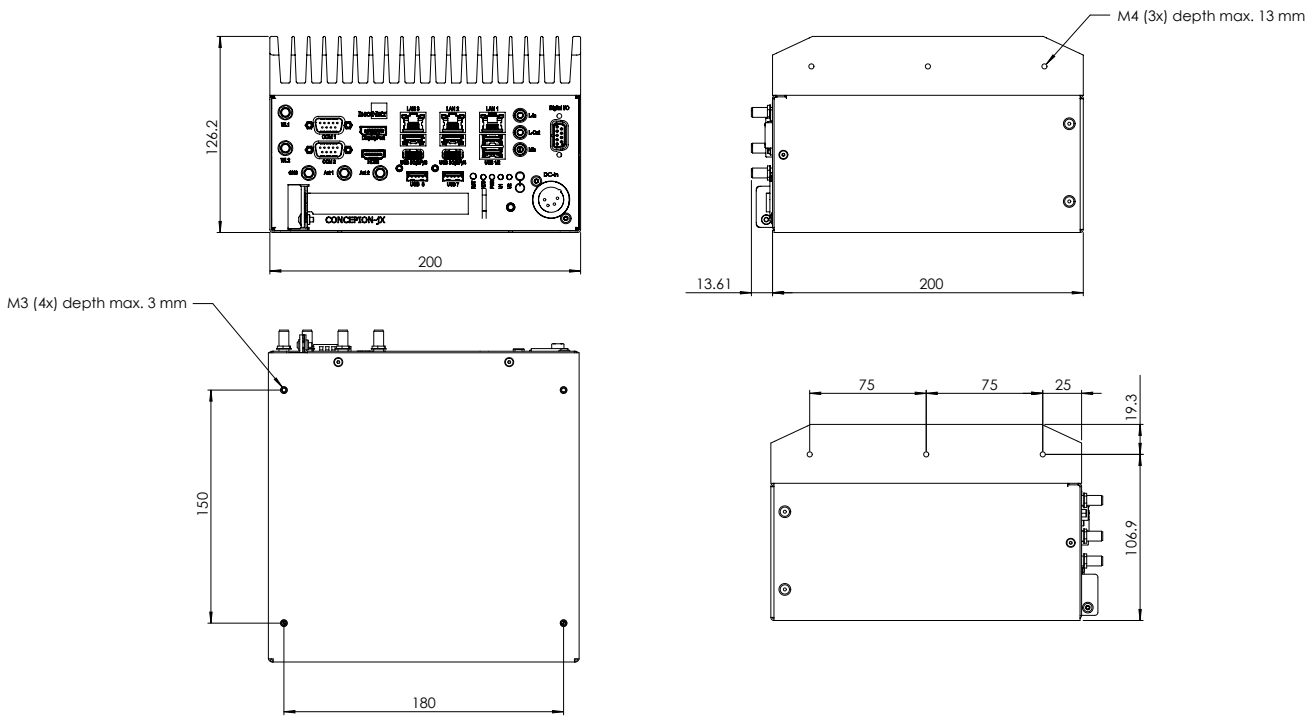
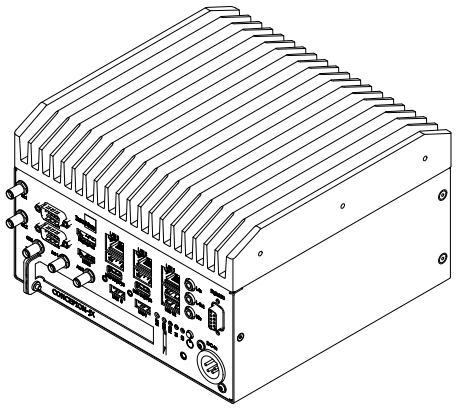
Additional illustrations

Technical drawing



Unit: mm



InoNet Competences and Services

Consulting | *Development* | *Testing* | *Customization* | *Manufacturing* | *Certifications*

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