

Conception®-tXf-L-v3 - 10. Gen.

Compact, actively cooled system for edge intelligence and automotive environments. Optional AI support.

Features

- High-Performance with Intel® Core™ i CPUs 10th Generation
- Optional High performance GPU (VPU and FPGA on request)
- Edge Intelligence Gateway
- Optional Wi-Fi/Bluetooth/GNSS/LTE, on request 5G
- Robust full-industrial components for 24/7 operation
- Also suitable for in-vehicle applications
- Ubuntu Certified



Configuration example

Further configurations on request!*

Mainboard:

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

Processor:

Intel® Core™ i 10th Generation
Chipset: Intel® W480E
Intel® Turbo-Boost: Depends on the selected configuration

Memory:

2x DDR4 SO-DIMM, max. 64 GB

Graphic:

Onboard Intel® UHD 630
KI (optional)
NVIDIA® A2 TENSOR CORE GPU with dedicated cooling
10 RT Cores, 16GB GDDR6, PCIe x8
(On request: NVIDIA® L4 Tensor Core)

Drive Bays:

Internal
1x M.2 (M-key, type: 2280)
External
2x 2.5" SATA-III SSD in shuttle

I/O:

Back
2x 1 GBit LAN (RJ45)
2x 1 GBit LAN (M12) (on request)
2x 10 GBit LAN (RJ45) (optional)
1x DisplayPort 1.2
1x DVI-D
1x HDMI 1.4b
2x RS-232/422/485
1x RS-232/422/485 (optional)
6x USB 3.2 (Gen 1)
2x USB 2.0
3x Audio (Line-In, Line-Out, Mic)
Internal
1x LVDS / eDP
1x GPIO Header (8 Bit)

Operating System:

Microsoft® Windows® 10/11
Linux® Ubuntu

The Ubuntu certification also includes these options.

Power Supply:

11 ~ 30 VDC, 250/300 Watt
NL4 connector (Neutrik), four-pin with ignition pin
Efficiency >94% @ 50% load
Optional

16 ~ 30 VDC, 400 Watt

Expansions:

2x PCIe x8 (mech. x16)
(The max. power loss must not exceed 50 Watt.)
1x M.2 (E-key, type: 2230)

Mechanical:

Chassis
Robust 1 mm galvanized sheet steel with powder coating (On request: Intrusion Detection)
Dimensions (W x H x D)
215 x 131 x 303 mm
Cooling
Active, 2x 80 mm fans
Filter cartridge incl. mat
Mounting
Wallmount, Desktop, 19" compatible (On request: two systems side by side)

Communication:

Wi-Fi/Bluetooth (optional)
Intel® M.2 Module, 802.11ax Dual Band 2x2 160MHz, Bluetooth® 5.1
GNSS/LTE (optional)
Support for GPS, GLONASS, BeiDou, Galileo, QZSS
Micro SIM slot for 3G/4G
(On request: 5G with additional antennas)

Environment:

Operating Temperature
0° ~ 55° C
Storage Temperature
-20° ~ 70° C
Relative Humidity (operation)
10 ~ 90 % (non condensing)
IP Protection
IP20

* Depending on the performance and cooling capacity of the power supply unit and the system fans.

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Additional illustrations



Filter cartridge with filter mat

Optional with Wi-Fi/Bluetooth and GNSS/LTE



Technical drawing

Unit: mm

Dimensions shown in drawing:
 - Filter cartridge: 215 mm width, 131 mm height
 - Device chassis: 300 mm width, 133 mm height, 10.5 mm depth
 - Chassis depth details: 74.2 mm, 44.2 mm, 111.1 mm
 - Chassis width details: 213 mm, 8 mm

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