

## 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 10<sup>th</sup> 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 10<sup>th</sup> 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 ~ 34 VDC, 250/300 Watt, M4-ATX for NL4 connector (Neutrik) four-pin with ignition pin  
Efficiency >94% @ 50% load  
**Optional**

16 ~ 30 VDC, 400 Watt, HDPLEX

#### 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.

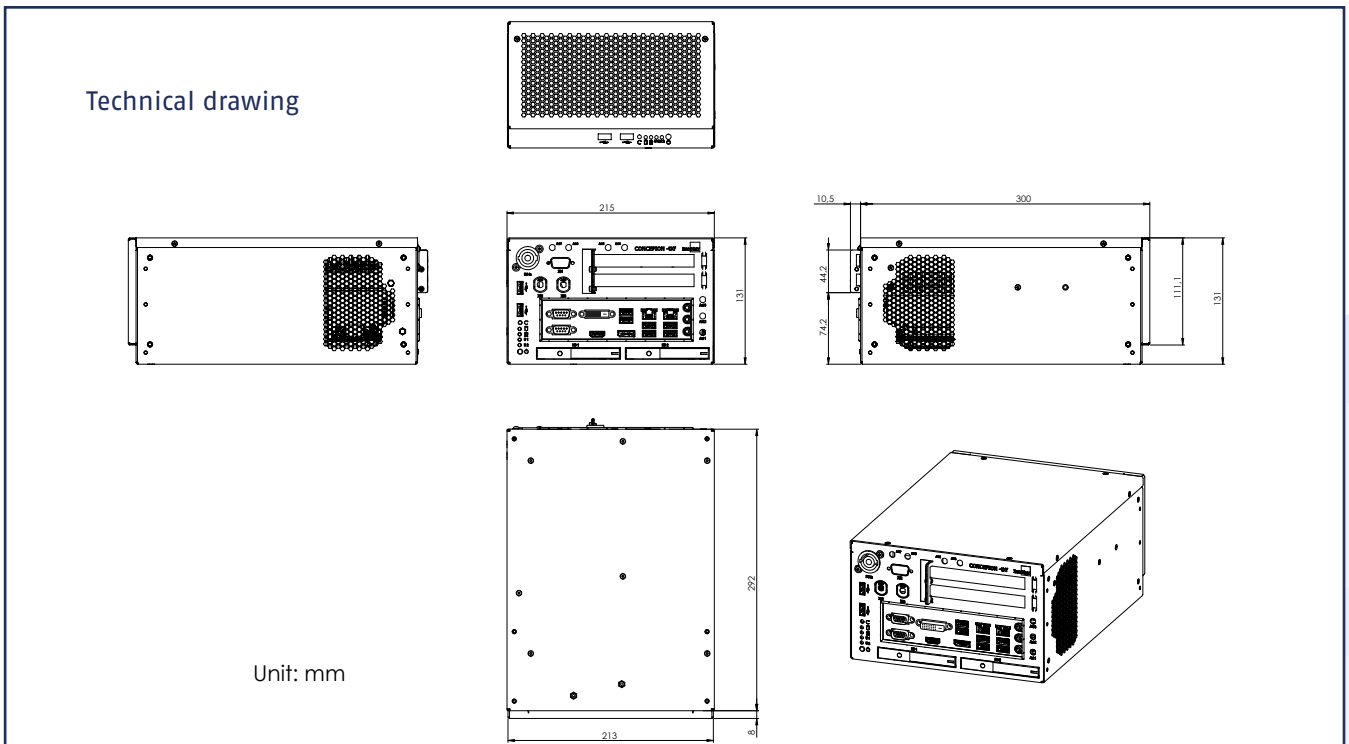
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## Additional illustrations




Filter cartridge with filter mat

Optional with Wi-Fi/Bluetooth and GNSS/LTE



### InoNet Competences and Services

					
Consulting	Development	Testing	Customization	Manufacturing	Certifications

InoNet Computer GmbH  
Wettersteinstraße 18  
82024 Taufkirchen, Germany  
[www.inonet.com](http://www.inonet.com)