

Conception[®]-tXf-L v2

Compact embedded PC with Intel[®] Core™ i CPUs 10th Generation for high performance and GPU applications

Features

- ↗ High-performance with 10th Generation Intel[®] Core™ i CPUs
- ↗ Edge Intelligence System with GPU, VPU or FPGA expansion
- ↗ For PCIe expansion cards up to 240 mm
- ↗ Two systems can be used side by side as 19" rackmount
- ↗ Temperature range from -10° ~ 60° C

Configuration example

Further configurations on request!

Mainboard:

Industrial Mainboard, 24/7 operation, long-term availability

Processor:

Intel[®] Core™ i 10th Generation
Chipset: Intel[®] W480E

Graphic:

Onboard Intel[®] UHD 630

Memory:

2x DDR4 S0-DIMM, max. 64GB

I/O:

2x GBit LAN (RJ45)
2x GBit LAN (M12) (on request)
2x RS232/422/485
1x RS232/422/485 (optional)
6x USB 3.2
2x USB 2.0
1x DisplayPort 1.2
1x DVI-D
1x HDMI 1.4
3x Audio (Line-In, Line-Out, Mic)

Drive Bays:

2x 2.5" SATAIII SSDs in shuttle

Operating System:

Microsoft Windows 10

Power Supply:

11 ~ 30 VDC, 250/300 Watt, M4-ATX XLR connector (Neutrik) four pin with ignition pin
Efficiency >94% @ 50% load

Expansions:

2x PCIe x8 (mech. x16)
1x M.2 (E-key, type:2230)
1x M.2 (M-key, type:2280)

Mechanical:

Chassis
Robust sheet metal
Dimensions (W x H x D)
215 x 131 x 303 mm
Cooling
Aktive, 2x 80 mm fans

Environment:

Operating Temperature
-10° ~ 60° C
Storage Temperature
-20° ~ 70° C
Relative Humidity
10 ~ 90 % (non condensing)

Features:

Watchdog Timer
TPM 2.0
iAMT 14.0

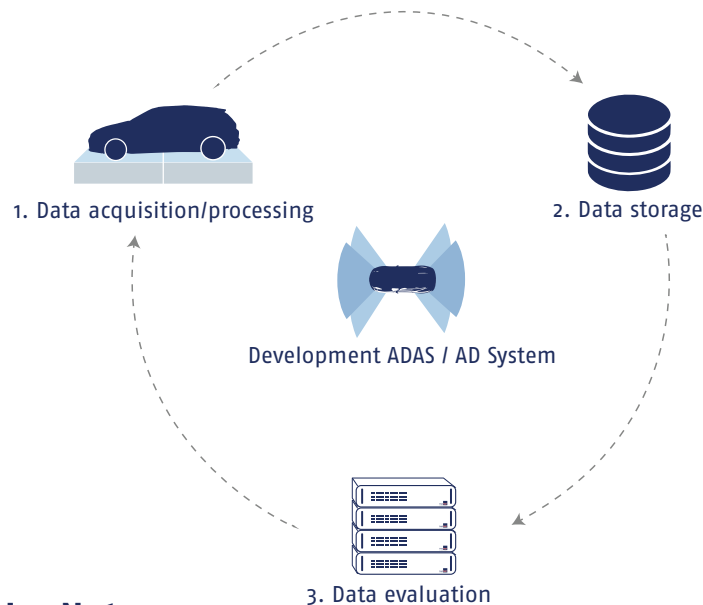


The InoNet Automotive Computing Ecosystem

The complete range of hardware solutions for the automotive industry

The challenge in ADAS and AD development

The development of driver assistance systems (ADAS) and autonomous driving automobiles entails an increased effort due to testing and validation of complex hardware and software with multiple test procedures. The extremely complex computational processes should be outsourced to HiL, SiL and ViL, if possible, in order to achieve faster, more cost-efficient and reproducible validation. On the way from autonomous driving level 3 to 5, the data volumes increase exponentially. In addition to this, the hardware in the vehicle is exposed to increased temperature, stronger shocks and vibrations during test operations and must withstand these environmental conditions in reliable continuous operation.



The solution from InoNet

InoNet systems offer tremendous computing power and ruggedness to industrial standards and are optimally designed for use in vehicles. They can easily withstand increased temperatures, shocks and vibrations and are all equipped with wide-range power supplies (with ignition signal support, terminal 15). The scalable data volume make the In-Vehicle PCs ideal for high-speed data logging applications. Thanks to the use of hard disks in the removable frame as well as in the QuickTray®, data carriers can be exchanged quickly and without tools. AI applications can also be developed and tested both inside and outside the vehicle by using the latest GPU generations with the highest performance.

InoNet Competences and Services



Consulting



Development



Testing



Customization



Manufacturing



Certifications

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