INONET
A EUROTECH COMPANY

Automotive Concepion®-tXf-L v2

Flexible In-Vehicle embedded computer for ADAS & AD development from data logging to AI applications

Features

- Intel® Core™ i 9th Generation or Intel® XEON® E3 CPU
- Expandable by professional GPU with up to 1792 CUDA® Cores
- Expandable by 4x 10GBit LAN
- Up to 4x CAN/CAN-FD via D-Sub
- 2x M.2 slots (M-key and E-key) for SSDs and other extensions (GPS etc.)
- Configurable automotive power supply with lockable Neutrik plug

Configuration example

Further configurations on request!

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

Processor:
Intel® Core™ i 9th Generation
Intel® XEON® E3 (max. 65 Watt)
Chipset: Intel® C246

Graphic:
Onboard Intel® UHD P630
Optional
Professional graphic card with up to 1792 CUDA® cores

Memory:
2x DDR4 SO-DIMM, max. 32GB, ECC

I/O:
2x GBit LAN (RJ45)
2x RS-232/422/485
1x RS-232 (optional)
1x DisplayPort 1.2
1x HDMI 1.4
1x DVI-D
6x USB 3.0
2x USB 2.0
3x Audio (Mic, Line-In, Line-out)

Drive Bays:
2x 2.5" SATAIII SSDs
(in removable frame, only one if D-Sub conncetor is used)

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)
1x D-Sub (25-pin, e.g. 4x CAN)
2x M12 (e.g. 2x CAN or 2x PoE)

Additional expansions for automotive applications (Ethernet, CAN, LIN® etc.)

Mechanical:
Dimensions (W x H x D)
215 x 131 x 303 mm
Cooling
Active, 2x 80 mm fans

Environment:
Operating Temperature
-10° ~ 60° C
Storage Temperature
-20° ~ 70° C
IP Protection
IP20

Features:
Watchdog Timer
TPM 2.0
iAMT 11.6

Picture similar

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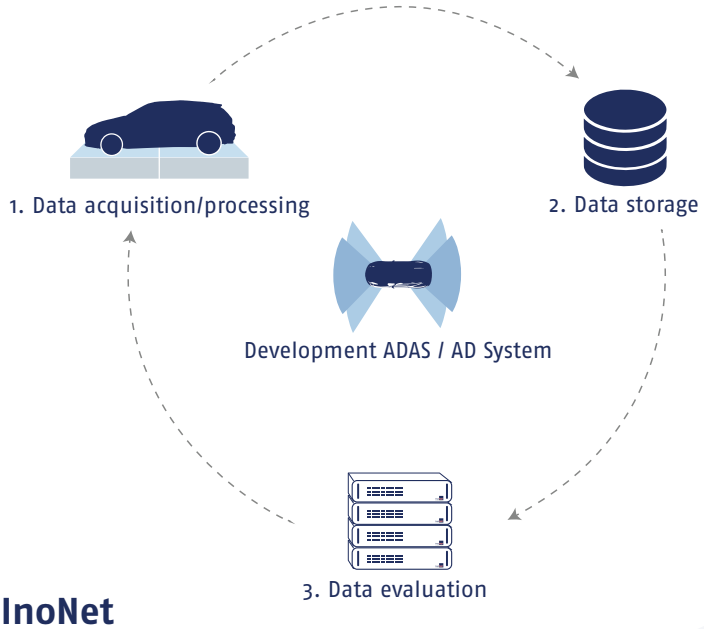
The InoNet Automotive Computing Ecosystem

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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