INONET
A EUROTECH COMPANY

Concepion®-jXa

Fanless embedded PC for in-vehicle use with radio remote control (Remote On/Off / Reset) and WLAN

Features

- High power density with 10th Generation Intel® Core™ i CPUs
- Passive cooling and 24/7 operation
- More comfort with optional wireless remote control
- Optional WLAN / BT module
- Externally accessible 2x 2.5“ shuttles for easy hard disk replacement during operation
- Customizability
- Shock and vibration protected

Configuration example

Further configurations on request!

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

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

Graphic:
Onboard Intel® UHD 630

Memory:
2x DDR4 SO-DIMM, max. 64GB

I/O:
2x GBit LAN (RJ45)
2x GBit LAN über M.2 (optional)
WLAN / BT Modul (optional)
2x RS232/422/485
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
RAID 0/1/5/10 (optional)

Power Supply:
11 ~ 32 VDC, 95 Watt, M2-ATX
XLR connector (Neutrik) four pin with ignition pin, XLR connector incl.
Optional
ext. power supply 100 ~ 240 VAC
XLR angle plug 90°

Expansions:
1x M.2 (E-key, type:2230)
1x M.2 (M-key, type:2280)

Mechanical:
Chassis
1 mm sheet steel, powder coated
Heat sink extruded aluminum profile
Dimensions (W x H x D)
200 x 126 x 206 mm
Cooling
Passive, available in 2 convection directions (90°)

Environment:
Operating Temperature
-10° ~ 55° C
Storage Temperature
-20° ~ 70° C
Shock (operation)
5 g (2 ms duration)
Vibration (operation)
0,6 g (10- 200 Hz)
IP Protection
IP20

Features:
Wireless radio remote control (2.4Ghz) for remote on / off / reset (optional)
TPM 2.0
iAMT 14.0

Operating System:
Microsoft Windows 10

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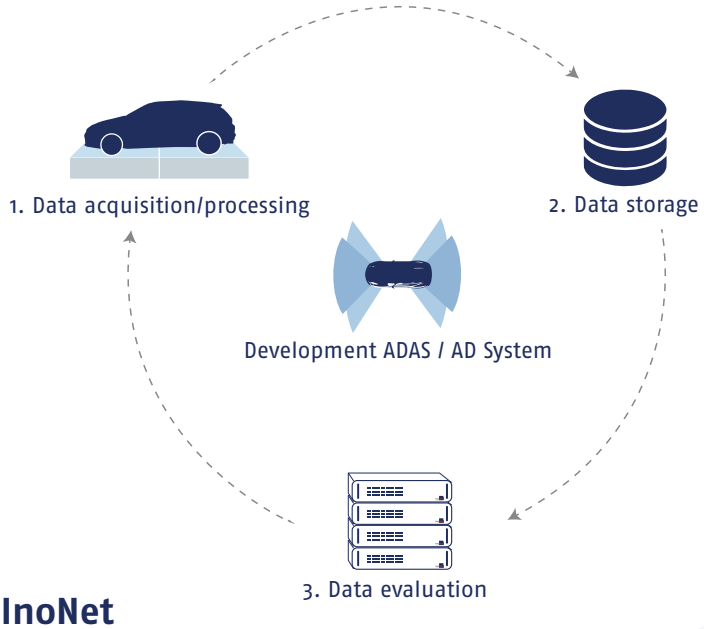
The InoNet Automotive Computing Ecosystem

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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