



## Concepion<sup>®</sup>-jXa-v4-Q670E

Extreme compact and fanless high performance measurement system for ADAS development in vehicles

## **Features**

- High-Performance with Intel<sup>®</sup> Core<sup>™</sup> i CPUs 12<sup>th</sup>/13<sup>th</sup>/14<sup>th</sup> Generation
- Incl. Wi-Fi/Bluetooth, GNSS/LTE
- Two 2.5" shuttles with hotswap function
- Passive cooling for flexible and quiet use
- Resistant to shocks and vibrations
- USB-C & 3x 2.5 GBit LAN for fast data transfer



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# **Configuration example** Further configurations on request!

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

#### **Processor:**

Intel<sup>®</sup> Core™ i 12<sup>th</sup>/13<sup>th</sup>/14<sup>th</sup> Generation Intel<sup>®</sup> Pentium<sup>®</sup> / Celeron<sup>®</sup> (up to 35 Watt) Chipset: Intel® Q670E Intel® Turbo-Boost: Depends on the selected configuration

Graphic: Onboard Intel<sup>®</sup> UHD 730/770 (depends on CPU)

Memory: 2x DDR5 SO-DIMM, max. 64GB

Drive Bays: 2x 2.5" (in removable frame)

1/0: 1x 1 GBit LAN (RJ45) 3x 2.5 GBit LAN (RJ45), vPro support 2x USB 3.2 (Gen 2) 1x USB 3.2 (Gen 1) 1x USB-C 3.2 (Gen 2) 6x USB 2.0 1x RS-232/422/485 3x DisplayPort 1.4 1x HDMI 2.0 2x Audio (Line-In, Line-Out) 2x PS/2 (Mouse and Keyboard) Internal 1x USB-A 3.2 (Gen 2) 1x GPIO Header (8 Bit), 3.3 Volt

Features: Watchdog Timer, iAMT SPI TPM Header, Onboard PTT (dTPM)

**Operating System:** Microsoft® Windows® 10/11, Linux®

#### Power Supply:

11 ~ 32 VDC, 95 Watt, M2-ATX XLR connector (Neutrik) four-pin with ignition pin, XLR conn. incl. **Optional** ext. power supply 100  $\sim$  264 VAC XLR angled plug 90°

**Expansions:** 

Additional expansions for automotive applications (Ethernet, CAN, LIN<sup>®</sup>, etc.)

#### **Communication:**

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

#### 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

#### **Environment:**

Operating Temperature -10° ~ 55° C Shock 5 g / 2 ms Vibration (operation) 0.6 g (10 - 200 Hz) Storage Temperature -20° ~ 70° ( Relative Humidity (operation)  $10 \sim 90 \%$  (non condensing) **IP Protection** IP20

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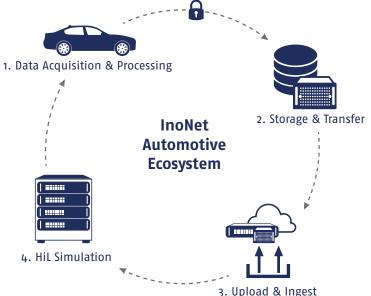




# **The InoNet Automotive Computing Ecosystem** The complete range of hardware solutions for the automotive industry

## 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<sup>®</sup>, data carriers can be exchanged quickly and without tools. All applications can also be developed and tested both inside and outside the vehicle by using the latest GPU generations with the highest performance.



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