INONET
A EUROTECH COMPANY

Concepion®-SbXa-v3-Q670E

Compact and fanless high performance measurement system for ADAS development in vehicles

Features

- *High-Performance with Intel® Core™ i CPUs 12th/13th/14th Generation*
- *High flexibility due to multiple interfaces*
- *Optionally with Wi-Fi/Bluetooth, GNSS/LTE on request*
- *Expandable by two PCIe slots*
- *Two 2.5“ shuttles with hot-swap function*
- *Passive cooling*
- *Resistant to shock and vibration*



Configuration example

Further configurations on request!

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

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

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

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

Drive Bays:
2x 2.5“ (internal)
2x 2.5“ (in removable frame)

I/O:
1x GBit LAN (RJ45)
1x 2.5GBit LAN (RJ45), vPro support
2x GBit LAN (RJ45) (optional)
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
2x RS-232 (optional)
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 ~ 264 VAC
XLR angled plug 90°

Expansions:
PCIe
2x PCIe x8 (Gen 4) via riser card
(The max. power loss must not exceed 50 Watt.)
M.2
1x M.2 (E-key, type: 2230)
1x M.2 (M-key, type: 2242/2260/2280)
Additional expansions
for automotive applications (Ethernet, CAN, LIN®, etc.)

Communication:
Wi-Fi/Bluetooth (optional)
Intel® M.2 Module, 802.11ax Dual Band, Bluetooth® 5.1
GNSS/LTE (on request)
Support for GPS, GLONASS, BeiDou, Galileo, QZSS
Micro SIM slot for 3G/4G

Mechanical:
Dimensions (W x H x D)
250 x 145.5 x 262 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° C
Relative Humidity (operation)
10 ~ 90 % (non condensing)
IP Protection
IP20

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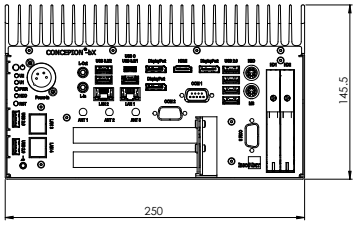
Additional illustrations

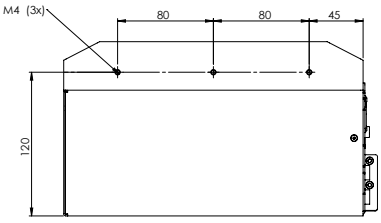


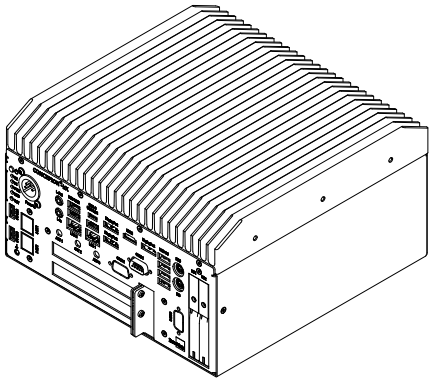
Optional with
Wi-Fi/Bluetooth

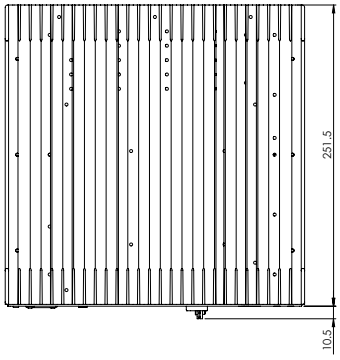
Technical drawing

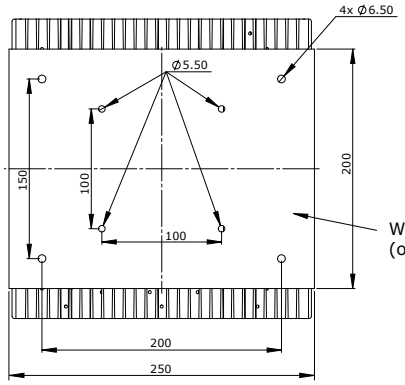
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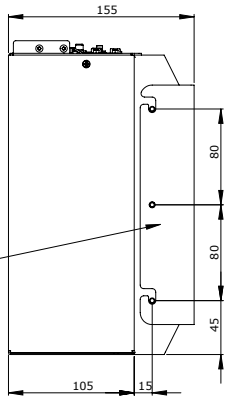








Wallmount
(optional)



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InoNet Computer GmbH
Wettersteinstraße 18
82024 Taufkirchen, Germany
www.inonet.com

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