

Conception[®]-SbXa-v3-Q670E

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

Features

- High-Performance with Intel[®] Core[™] i CPUs 12th 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 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/L4G

Mechanical:

Dimensions (W x H x D)
250 x 145.5 x 262 mm
Cooling
Passive

Environment:

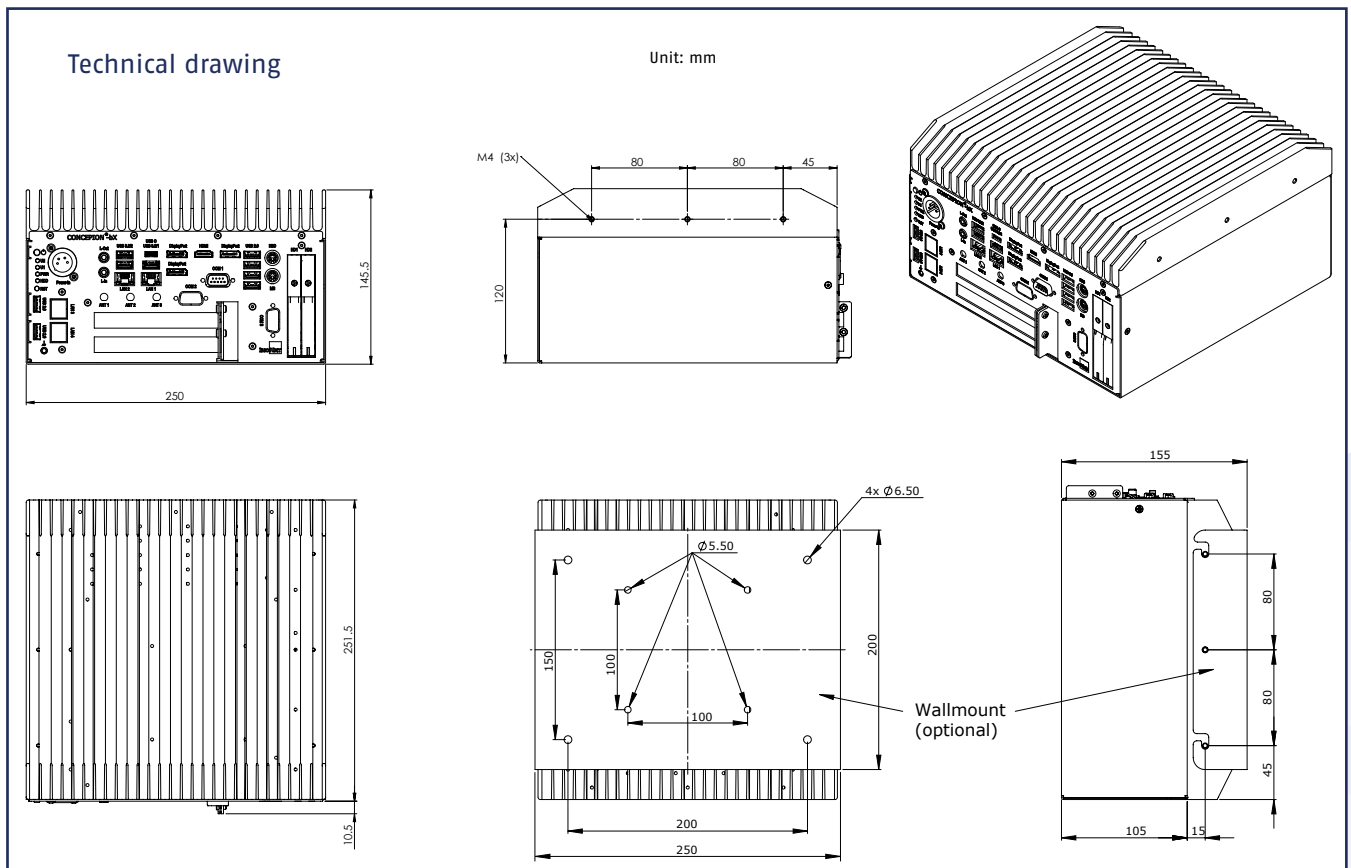
Operating Temperature
-10° ~ 55° C
Shock
5 g / 2 ms
Vibration (operation)
0.6 g (10 ~ 200 Hz)
Storage Temperature
-20° ~ 70° C
Relative Humidity (operation)
10 ~ 90 % (non condensing)
IP Protection
IP20

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Additional illustrations



Optional with
Wi-Fi/Bluetooth



InoNet Competences and Services



Consulting



Development



Testing



Customization



Manufacturing



Certifications

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