

Conception®-bX-v3-Q670E

Compact and fanless high performance embedded system with 12th/13th/14th generation Intel® Core™ i CPUs

Features

- High-Performance with Intel® Core™ i CPUs 12th/13th/14th Generation
- High flexibility due to multiple interfaces
- Optional Wi-Fi/Bluetooth/GNSS/LTE (5G on request)
- Expandable by two PCIe slots
- Two 2.5" shuttles with hot-swap function
- Passive cooling
- Extra robust



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
Chipset: Intel® Q670E
Intel® Turbo-Boost: Depends on the selected configuration

Graphic:

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

Memory:

2x DDR5 S0-DIMM, max. 64GB

Drive Bays:

Internal
2x M.2 (M-key, type: 2242/2260/2280)
2x 2.5"
External
2x 2.5" SATA-III SSD in shuttle

I/O:

1x 1 GBit LAN (RJ45)
1x 2.5 GBit LAN (RJ45), vPro support
2x 1 GBit LAN (RJ45) (optional)
3x USB 3.2 (2x Gen 2, 1x 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, 120 Watt
XLR connector (Neutrik) four-pin
XLR connector incl.

Optional

ext. power supply 100 ~ 240 VAC
XLR angled plug 90°

Expansions:

2x PCIe x8 (Gen 4) via riser card
(The maximum power loss must not exceed a specified value. Please contact us for further information).
1x M.2 (E-key, type: 2230)

Communication:

Wi-Fi/Bluetooth (optional)
Intel® M.2 Module, 802.11ax Dual Band 2x2 160 MHz, Bluetooth® 5.1
GNSS/LTE (optional)
Support for GPS, GLONASS, BeiDou, Galileo, QZSS, Micro SIM slot for 3G/4G (on request: 5G with additional antennas)

Mechanical:

Chassis
Robust 1 mm galvanized sheet steel with powder coating
Dimensions (W x H x D)
250 x 145.5 x 262 mm
Cooling
Passive
Mounting
Wallmount, Desktop

Environment:

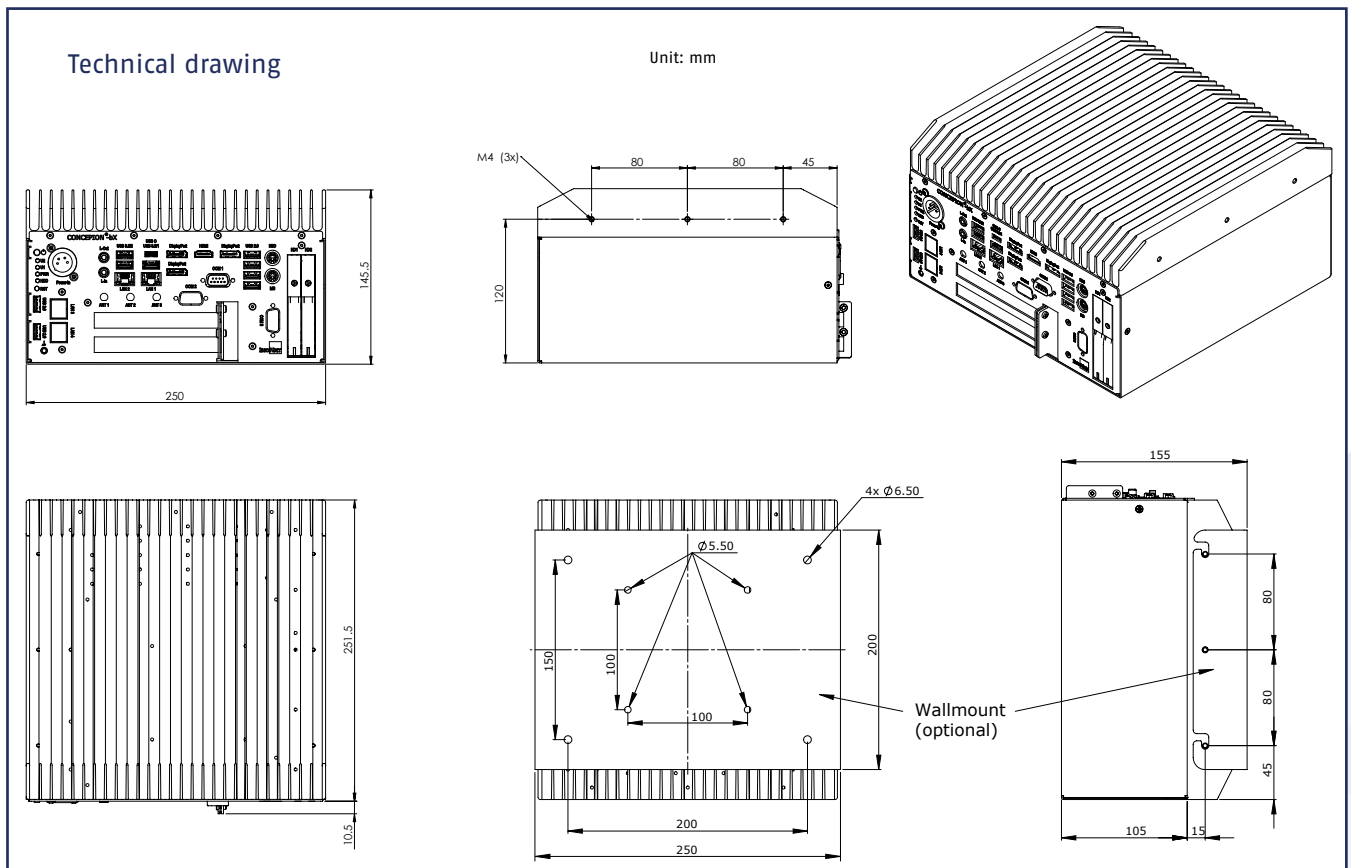
Operating Temperature
-10° ~ 55° C
Shock
5 g / 2 ms
Vibration (operation)
0.6 g (10 - 200 Hz)
Storage Temperature
-20° ~ 70° C
Relative Humidity (operation)
10 ~ 90 % (non condensing)
IP Protection
IP20

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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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