

Conception®-LLM-v3-Lo7-R680E

Compact GenAI system for AI inference with Intel® Core™ i CPUs up to 14th Gen. and NVIDIA® L4 Tensor Core GPU

Features

- **High-Performance with Intel® Core™ i CPUs 12th/13th/14th Generation**
- **Including powerful NVIDIA® L4 Tensor Core GPU for AI applications**
- **Robust full-industrial components for 24/7 operation**
- **Two additional 2.5" shuttles**
-  **Discover our free Copilot (open-source ChatBot), with which you can test various LLMs on-premise with your documents**



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 up to 65 Watt TDP, Socket 1700
Chipset: Intel® R680E
Intel® Turbo-Boost: Depends on the selected configuration

Memory:

2x DDR5 S0-DIMM, max. 5600 MHz max. 64 GB

Graphic:

Onboard Intel® UHD 730/770 (depending on CPU)
AI
NVIDIA® L4 Tensor Core GPU, PCIe x8 with dedicated cooling
7680 CUDA Core, 24 GB GDDR6

AI Performance:

FP32: 30.3 TFLOPs
TF32 Tensor Core: 120 TFLOPs
FP16 Tensor Core: 242 TFLOPs
BFLOAT16 Tensor Core: 242 TFLOPs
FP8 Tensor Core: 485 TFLOPs

Drive Bays:

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

Expansions:

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

Features:

Watchdog Timer, iAMT, TPM 2.0

Operating System:

Microsoft® Windows® 10/11, Linux®

* The final configuration must take care of the power and cooling capacity of the power supply and the system fans.

I/O:

Back

2x 2.5 GBit LAN (RJ45), 1x iAMT support
4x 10 GBit LAN (RJ45), PCIe x8 card
2x Display Port 1.4a
1x RS-232
1x RS-232/422/485
6x USB 3.2 (2x Gen 2, 4x Gen 1)
2x USB 2.0
3x Audio (Line-In, Line-Out, Mic)

Internal

1x LVDS / eDP
1x GPIO Header (8 Bit)

Power Supply:

12 ~ 48 VDC, 500/600 Watt
NL4 connector (Neutrik)
Efficiency >94%

Optional

11 ~ 30 VDC, 250/300 Watt
NL4 connector (Neutrik), four-pin with ignition pin

Mechanical:

Chassis

Robust 1 mm galvanized sheet steel with powder coating (On request: Intrusion Detection)
Dimensions (W x H x D)

215 x 131 x 303 mm

Cooling

Active, 2x 80 mm fans
Filter cartridge incl. mat

Mounting

Wallmount, Desktop, 19" compatible (On request: two systems side by side)

Environment:

Operating Temperature

0° ~ 35° C

Storage Temperature

-20° ~ 70° C

Relative Humidity (operation)

10 ~ 90 % (non condensing)

IP Protection

IP20

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Additional illustrations

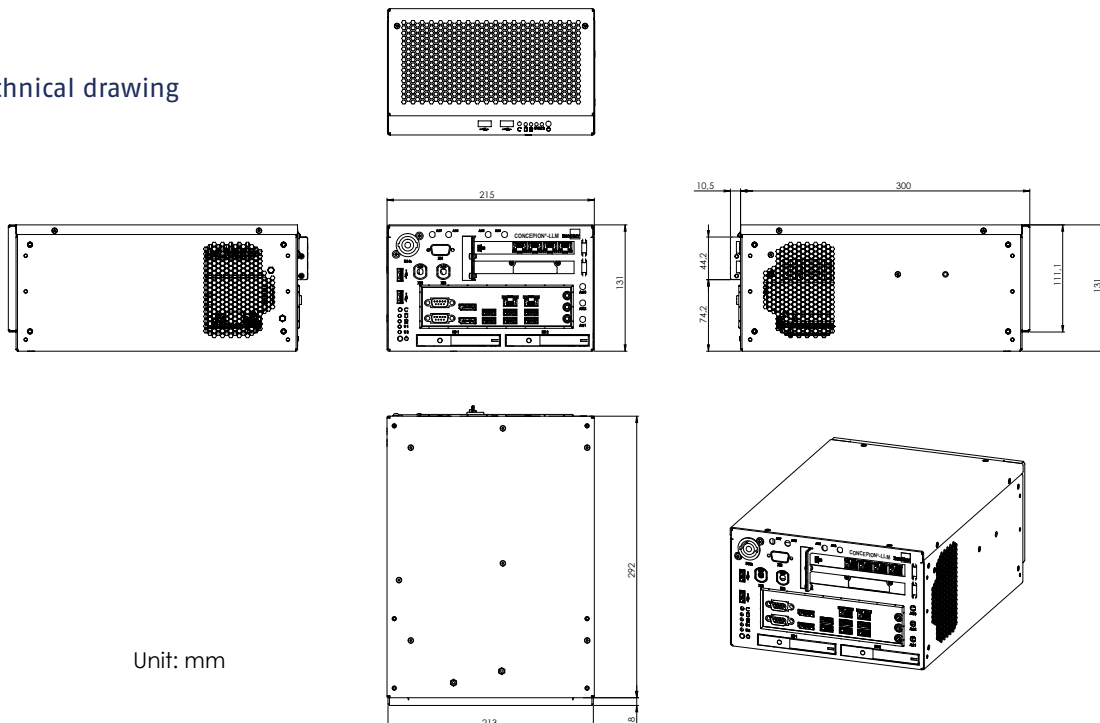


Filter cartridge
with filter mat

Backside



Technical drawing



InoNet Competences and Services



Consulting



Development



Testing



Customization



Manufacturing



Certifications

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