

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, HDPLEX for NL4 connector (Neutrik)
Efficiency >94%

Optional

11 ~ 34 VDC, 250/300 Watt, M4-ATX for 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

Unit: mm

Dimensions shown in drawing:
 - Top view: 215 mm width, 131 mm height
 - Front view: 213 mm width, 8 mm depth
 - Side view: 300 mm length, 10.5 mm height, 44.2 mm depth, 74.2 mm depth, 111.1 mm height, 131 mm height
 - Perspective view: 213 mm width, 8 mm depth, 300 mm length, 111.1 mm height

InoNet Competences and Services



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ISO 9001
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