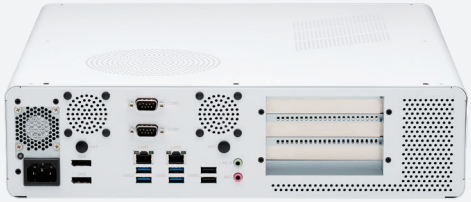
AIEdge-X®310

Industrial AI Computing System at The Edge
Powered by 14/13/12th Gen Intel® Core™ i Processor and NVIDIA® Graphics Card





Main Features

- Support 14/13/12th Gen Intel® Core™ i9/i7/i5/i3 processor
- An optional M.2 module for storage
- 2 x 2.5" SATA HDD/SSD
- 2 x DP, 2 x LAN (1GbE/2.5GbE), 2 x COM, 4 x USB 3.2 Gen 1, 2 x USB 2.0
- 1 x PCIe slot, supports PCIe x16 graphics card up to 650W
- Stylish design with powerful computing power
- Validated with the NVIDIA® GeForce RTX™ 50 and Quadro series graphics cards, up to the NVIDIA® RTX™ 6000 Ada Generation

Product Overview

The AIEdge-X®310, powered by 14/13/12th Gen Intel® Core™ i processor, supports high-end graphics cards up to the NVIDIA® RTX™ 6000 Ada Generation. Leveraging powerful GPUs with thousands of CUDA® cores, it delivers outstanding performance for deep learning, rendering, streaming, and AI applications.

Engineered for demanding visual computing tasks, the AIEdge-X®310 excels in image analysis, interactive projection, and smart retail management. Its advanced graphical capabilities and real-time processing also make it ideal for virtual and augmented reality applications, ensuring smooth, immersive, and highly interactive experiences.

Specifications

Processor

- 14/13/12th Gen Intel® Core™ i9/i7/i5/i3 processor, PBP 65W
  - Intel® Core™ i9-14900, PBP 65W
  - Intel® Core™ i9-14900T, PBP 35W
  - Intel® Core™ i7-14700, PBP 65W
  - Intel® Core™ i7-14700T, PBP 35W
  - Intel® Core™ i5-14500, PBP 65W
  - Intel® Core™ i5-14500T, PBP 35W
  - Intel® Core™ i5-14400, PBP 65W
  - Intel® Core™ i5-14400T, PBP 35W
  - Intel® Core™ i3-14100, PBP 65W
  - Intel® Core™ i3-14100T, PBP 35W
  - Intel® Core™ i9-13900, PBP 65W
  - Intel® Core™ i9-13900E, PBP 65W
  - Intel® Core™ i9-13900TE, PBP 35W
  - Intel® Core™ i7-13700, PBP 65W
  - Intel® Core™ i7-13700E, PBP 65W
  - Intel® Core™ i7-13700TE, PBP 35W
  - Intel® Core™ i5-13500, PBP 65W
  - Intel® Core™ i5-13500TE, PBP 35W
  - Intel® Core™ i5-13400, PBP 65W
  - Intel® Core™ i5-13400E, PBP 65W
  - Intel® Core™ i3-13100, PBP 60W
  - Intel® Core™ i3-13100E, PBP 60W
  - Intel® Core™ i3-13100TE, PBP 35W

Chipset

- Intel® PCH H610E

Integrated Graphics

- Intel® UHD Graphics 770

Expansion Slot

- PCIe 4.0 x16
  - Compatible with NVIDIA® RTX™ 50 series and Quadro series; supports up to the optional RTX™ 6000 Ada Generation (graphics card not included).
  - 3-slot space available for graphics card
  - Recommended expansion card dimensions: up to 340mm (L) × 141mm (W) × 70mm (H)

Memory

- 2 x DDR5 SO-DIMM, non-ECC, unbuffered, up to 64GB, 32GB per DIMM

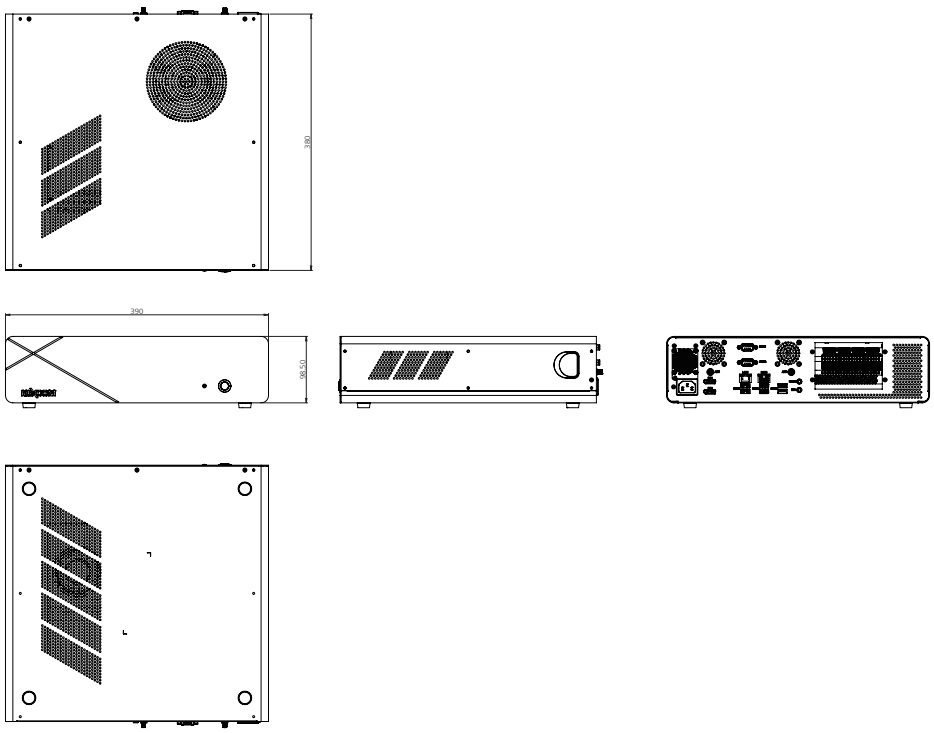
I/O Interface Front

- 1 x Power button with LED
- 1 x HDD LED

I/O Interface Rear

- 2 x DP 1.4
- 4 x USB 3.2 Gen 1
- 2 x USB 2.0
- 1 x 1GbE RJ45 port, Intel® I219LM

Dimension Drawing



- 1 x 2.5GbE RJ45 port, Intel® I226LM
- 1 x COM port (DB9), supports RS-232
- 1 x COM port (DB9), supports RS-232/422/485
- 1 x Line out
- 1 x Mic in

I/O Interface Internal
- 1 x M.2 Key M 2280 (PCIe 4.0 x4, SATA 3.0)
- 1 x 8-pin header for 8-bit GPIO
- 2 x SATA 3.0 connector

Storage
- 2 x 2.5" SATA 3.0 HDD/SSD
- 1 x M.2 Key M 2280 SSD (PCIe 4.0 x4, SATA 3.0)

Power Supply
- 1 x 850W power supply
- AC 100V~240V input
- DC +12V output

Environment
- Operating temperature: 0°C~45°C
- Storage temperature: -20°C~80°C
- Humidity: 10%~90% (non-condensing)
- Shock protection: 20G peak acceleration, 11ms according to IEC 60068-2-27
- Vibration protection:
  - Random: 2Grms@5Hz~500Hz, IEC 60068-2-64 (with SSD)
  - Sinusoidal: 2Grms@5Hz~500Hz, IEC 60068-2-6 (with SSD)

Certifications
- CE (EMC EN 55032 + EN 55024)
- FCC Class A (EMI Part 15B)
- LVD

System Capabilities
- TPM 2.0

Mechanical
- Dimensions: 390mm (W) x 380mm (D) x 98.5mm (H)
- Weight: 6.7kg

Package Information
- Carton dimensions: 535mm (W) x 480mm (D) x 196mm (H)
- Gross weight: 7.3kg, 1 unit per carton

Operating System
- Windows 10, 64bit
- Linux

Ordering Information

Barebone
- **AIEdge-X®310 (P/N:10W20X31000X0)**
  Industrial AI computing system at the Edge, powered by 14/13/12th Gen Intel® Core™ i processor

We reserve the right to change specifications and product descriptions at any time without prior notice.