



Main Features

- ♦ Support 14/13/12th Gen Intel[®] Core[™] i9/i7/i5/i3 processor
- ♦ Optional M.2 module for storage
- ♦ 2 x 2.5" SATA 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

CPU Support

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

Chipset

- ♦ Intel[®] PCH H610E

Graphics

- ♦ Intel[®] UHD Graphics 770

Expansion

- ♦ PCIe 4.0 x16
 - Compatible with NVIDIA[®] RTX[™] 50 series and Quadro series, extending up to the optional RTX[™] 6000 Ada Generation (graphics card not included).
 - 3 slots space available for graphics card
 - Suggested expansion card dimensions within the limit of 340mm (L) x 141mm (W) x 70mm (H)

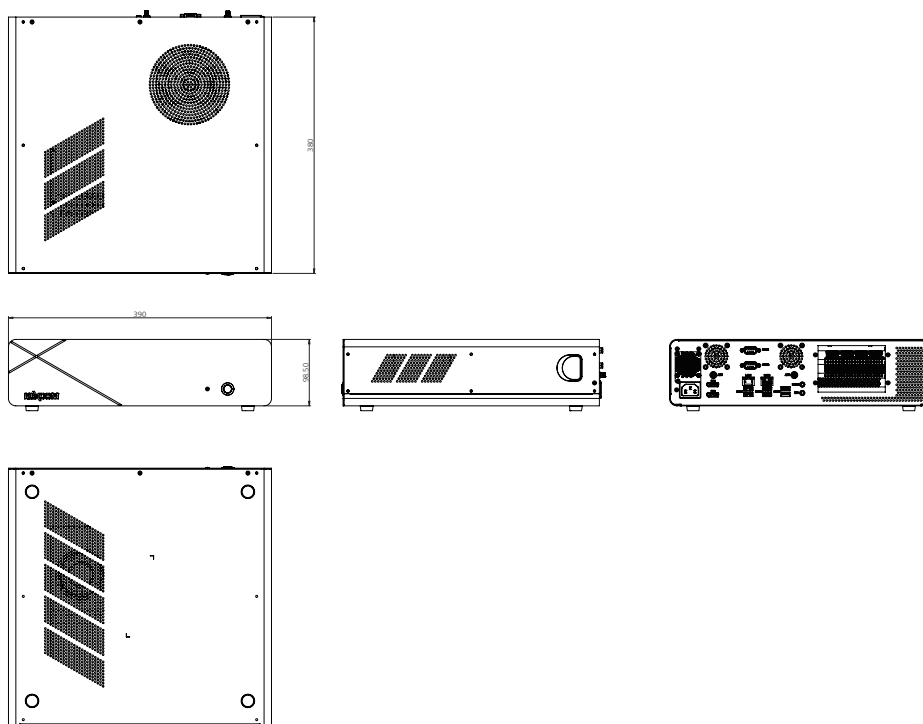
Main Memory

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

Internal I/O

- ♦ 1 x M.2 Key M 2280 (PCIe 4.0 x4, SATA 3.0)
- ♦ 2 x COM port pin header
- ♦ 1 x 8-channel GPIO pin header
- ♦ 2 x SATA 3.0 connector

Dimension Drawing



I/O Interface

- 1 x Power button with LED
- 1 x HDD LED
- 2 x DP 1.4
- 4 x USB 3.2 Gen 1
- 2 x USB 2.0
- 1 x 1GbE RJ45 port, Intel® I219LM
- 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

Storage

- 1 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)

Certification

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

Dimension & Weight

- 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 Support

- 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