AIEdge-X®300

Main Features

- Supports 8th/9th Gen Intel® Core™ i5/i7/i9 and socket type processor up to 65W
- PCIe slot supports PCIe x16 graphics card up to 160W
- Validated for optional NVIDIA RTX 2060 graphics card
- Industrial AI system compact in size
- Support optional M.2 module for Wi-Fi and flash storage
- Support 1 x SATA 2.5" HDD/SSD or 1 x 3.5" HDD/SSD

Product Overview

Powered by the 8th/9th generation Intel® Core™ processor, the AIEdge-X® 300 GPU enhanced Edge PC that can handle powerful multimedia content. In addition, it includes one expansion slot for graphics card that supports up to NVIDIA RTX 2060 GPU which powers up to 240 Tensor Cores, not only does it offer stunning visuals for image projecting, it is also optimal for AI machine/deep learning. The AIEdge-X®300 engages "calls to action" with virtual interactions in order to increase product interest and dwell time.

The AIEdge-X®300, supporting HDMI display, LAN ports, USB 3.0 ports, and a RS232/RS422/RS485 interface, is an ideal high-end PC to optimize Image Analytics, interactive projection, information visualization, convey brand messages, customer engagement, and smart retail management efficiencies to increase customer interaction and brand awareness. The AIEdge-X®300 can also support usages in education, interactive walls/floors, virtual and augmented reality and much more.

Specifications

CPU Support

- Supports 8th/9th Gen Intel® Core™ socket type processor up to 65W (LGA1151)
  - Intel® Core™ i9-9900T 2.10 GHz, 8 Core, 35W
  - Intel® Core™ i7-8700 3.20 GHz, 6 Core, 65W
  - Intel® Core™ i7-8700T 2.40GHz, 6 Core, 35W
  - Intel® Core™ i5-8500 3.00 GHz, 6 Core, 65W
  - Intel® Core™ i5-8500T 2.10 GHz, 6 Core, 35W

Chipset

- Intel® PCH Q370

Graphics

- Supports up to NVIDIA RTX 2060 (graphics card optional)
  - Integrated graphic powered by Intel® UHD graphics 630
  - Suggested expansion card dimension within the limit of 204mm (L) x 121mm (W) x 39mm (H)
- Validated for optional graphics card
  - ASUS PH-RTX2060-O6G
  - Leadtek Quadro P2200

Main Memory

- 2 x 260-pin SO-DIMM sockets Support DDR4-2400/2666 MHz non ECC, un-buffered memory up to 32G (single socket max 16GB)
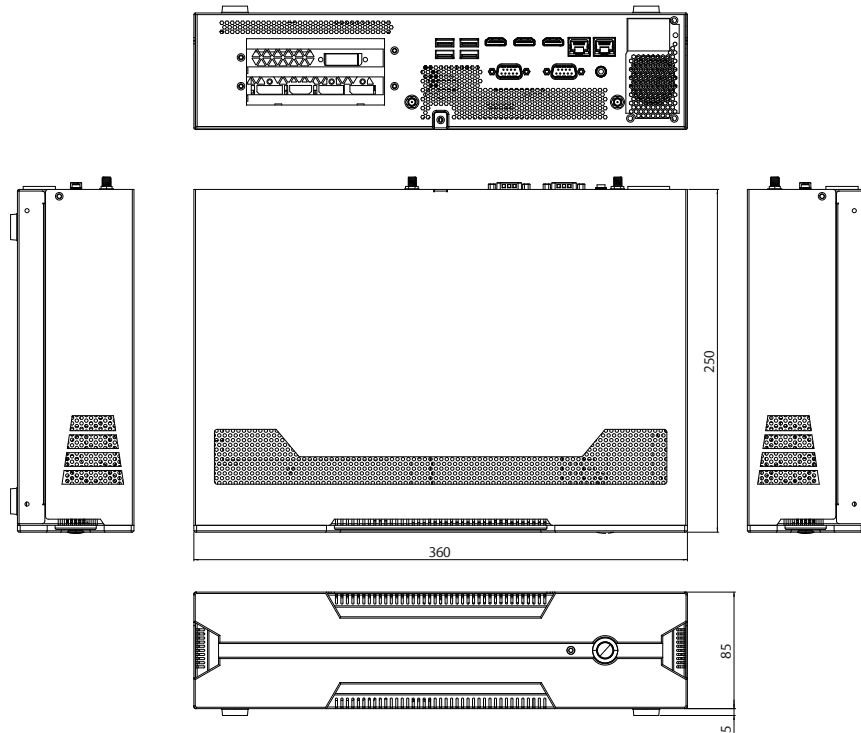
Internal I/O

- 2 x RS232 COM port box header
- 8 Channels GPIO pin header
- 4 x USB 2.0 pin header
- 1 x SATA connector

I/O Interface

- 1 x Power button with LED
- 1 x HDD LED
- 2 x Antenna hole
- 3 x HDMI 2.0
- 4 x USB 3.0
- 2 x RJ45 with LEDs for Gigabit LAN (Intel® I219-LM/I211-AT)
- 1 x COM 1 port RS232/RS422/RS485
- 1 x COM 2 port RS232
- 1 x Audio Line-out

System Architecture

Storage
- 1 x SATA 2.5" HDD/SSD or 1 x 3.5" HDD/SSD
- 1 x M.2 M Key 2280 SSD with SATA/PCIe signal

Expansion
- PCIe x16 Gen 3 slot (2 slot space available for graphics card)
- 1 x M.2 E Key 2230 supporting Wi-Fi module

Power Supply
- 1 x 500W flex ATX power supply

Environment
- Operating temperature: 0°C to 45°C
- Storage temperature: -20°C to 80°C
- Humidity: 10% to 90% (non-condensing)

Certification
- CE (EMC EN55032 + EN55024)
- FCC Class A (EMI Part 15B)
- LVD

Dimensions
- 360mm (W) x 250mm (D) x 85mm (H)

Operating System Support
- Win10/Linux

Ordering Information

Barebone

- **AIEdge-X®300 (P/N: 10W20X30000X0)**
  Industrial AI computing system at the edge powered by Intel® 8th/9th Gen. Intel® Core™ CPU for optional NVIDIA graphics card