

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

- Socket LGA1151, Intel[®] 8/9th Generation Core[™] i9/i7/i5/i3 processor, 14nm process

Generation	Socket Type	CPU	Smart Cache	Cores	Threads	Base Frequency	TDP
8th Coffee Lake	FCLGA1151	i3-8100T	6M	4	4	3.1GHz	35W
8th Coffee Lake	FCLGA1151	i5-8500T	9M	6	6	2.1GHz	35W
8th Coffee Lake	FCLGA1151	i7-8700T	12M	6	12	2.4GHz	35W
8th Coffee Lake	FCLGA1151	i3-8300	8M	4	4	3.7GHz	65W
8th Coffee Lake	FCLGA1151	i5-8500	9M	6	6	3.0GHz	65W
8th Coffee Lake	FCLGA1151	i7-8700	12M	6	12	3.2GHz	65W
9th Coffee Lake Refresh	FCLGA1151	i3-9100TE	6M	4	4	2.2GHz	35W
9th Coffee Lake Refresh	FCLGA1151	i5-9500TE	9M	6	6	2.2GHz	35W
9th Coffee Lake Refresh	FCLGA1151	i7-9700TE	12M	8	8	1.8GHz	35W
9th Coffee Lake Refresh	FCLGA1151	i9-9900T	16M	8	16	2.1GHz	35W

Chipset

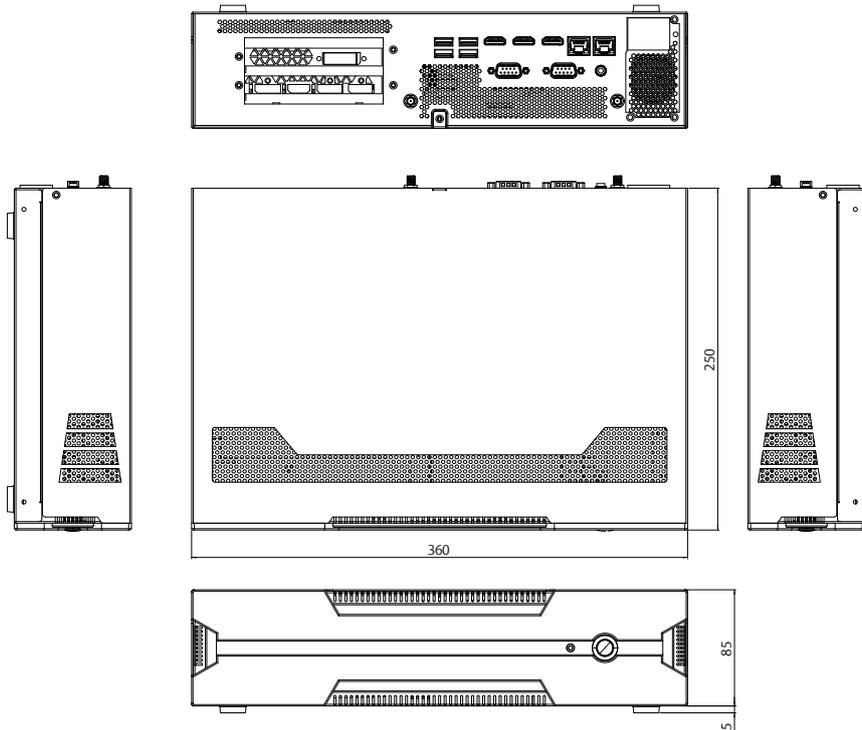
- Intel[®] PCH Q370

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

System Architecture



- 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

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 Key E 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

Optional

- **AIBooster®-X8 (P/N: 10E000AIB00X0)**
Intel® Movidius™ Myriad™ X VPU PCIe deep learning accelerator card with heatsink and bracket