

AIEdge-X®300-VPU

Industrial AI Computing System at the Edge
Powered by Intel® 8th/9th Gen. Intel® Core™ CPU







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 with Intel® Movidius™ Myriad™ X VPU
- 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 AlEdge-X®300-VPU enhanced edge PC that can handle powerful multimedia content. In addition, it includes one expansion slot for graphics card that supports NEXCOM AlBooster®-X8 VPU, not only does it offer stunning visuals for image projecting, it is also optimal for Al machine/deep learning. The AlEdge-X®300 engages "calls to action" with virtual interactions in order to increase product interest and dwell time.

NEXCOM AlBooster®-X8 card adopts Intel® Vision Accelerator Design technology to provide deep neural network inference for fast, accurate video analytics. Intel® Movidius™ VPU is apable of operation on customizable complex networks and network layers with high compute, resulting in industryleading performance. In AlBooster®-X8, 8 pcs of Intel® Movidius™ VPU are used to generate a dramatically high performance on upporting ecosystem solutions for high-quality image rocessing, computer vision and deep neural networks.

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 Intel® AIBooster®-X8 (VPU optional)

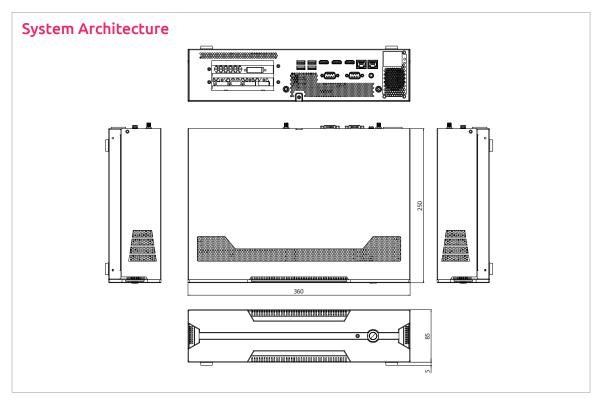
AIEdge-X® Series

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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 2280 Key M SSD with SATA/PCIe signal

Expansion

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

AlEdge-X®300-VPU (P/N: TBC)
 Industrial Al computing system at the edge powered by Intel® 8th/9th Gen. Intel® Core™ CPU

Optional

• AlBooster®-X8 (P/N: 10E000AlB00X0)

Intel® Movidius™ Myriad™ X VPU PCIe deep learning accelerator card with heatsink and bracket

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AIEdge-X® Series

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

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