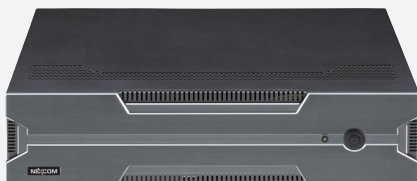
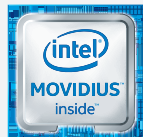


AIEdge-X[®] 300-VPU

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 AIEdge-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 AIBooster[®]-X8 VPU, 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.

NEXCOM AIBooster[®]-X8 card adopts Intel[®] Vision Accelerator Design technology to provide deep neural network inference for fast, accurate video analytics. Intel[®] Movidius[™] VPU is capable of operation on customizable complex networks and network layers with high compute, resulting in industry-leading performance. In AIBooster[®]-X8, 8 pcs of Intel[®] Movidius[™] VPU are used to generate a dramatically high performance on supporting ecosystem solutions for high-quality image processing, 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

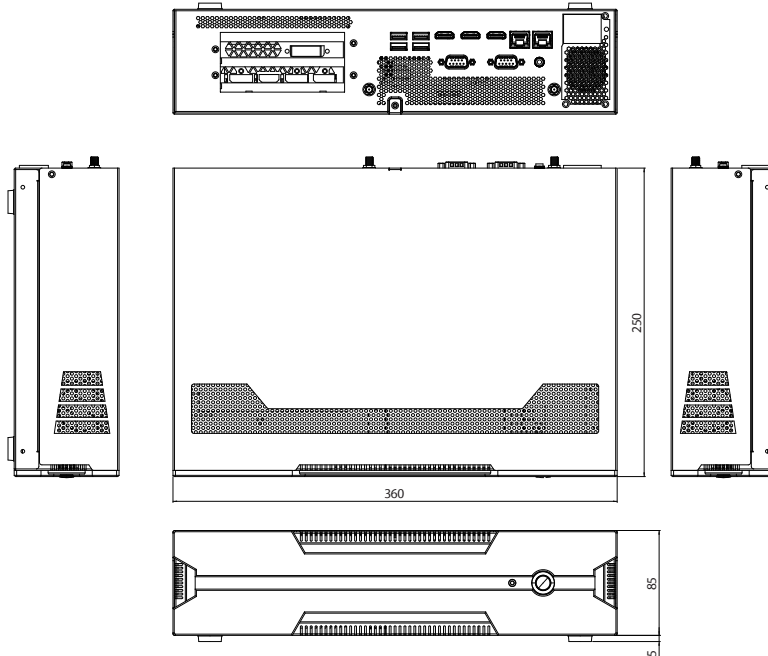
Graphics

- Supports Intel[®] AIBooster[®]-X8 (VPU optional)

www.nexcom.com



System Architecture



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

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

Optional

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

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

US

sales@assured-systems.com

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050

Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660