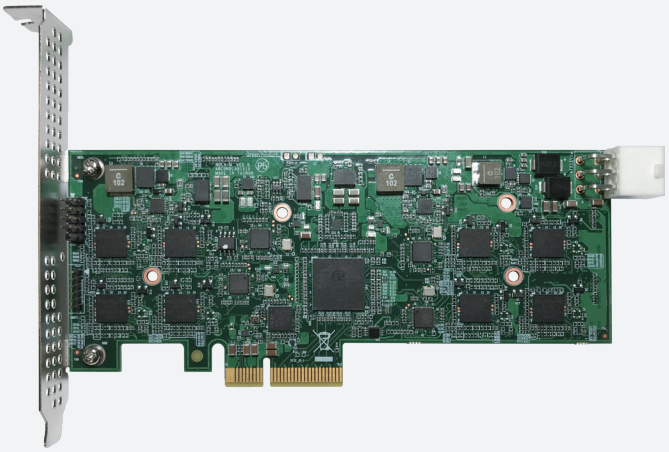
AIBooster-X8

Intel® Movidius Myriad-X PCie Deep Learning Accelerator Card



Main Features

- Myriad-X 2485 VPUs*8
- PCIe 3.0 By 4
- 4Gb LPDDR4 memory in-package (1600Mhz), 32Gb in total
- M/JPEG 4K at 60Hz encoder
- H.264/H.265 4K at 30Hz encoder

Product Overview

NEXCOM AIBooster-X8 card adopts Intel® Vision Accelerator Design technology to provide deep neural network inference for fast, accurate video analytics. 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 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

VPU Engine Specs

- Myriad-X 2485 VPUs*8
- Per VPU with
  - Compute capacity 4 TOPS
  - Vector processors 16x SHAVE Processors
  - CPUs 2x LEON 4 cores (RISC; SPARC V8)
  - On-chip Accelerators 20+ image/vision processing accelerator Neural Compute Engine (DNN accelerator)
  - Neural Network Capability Neural Compute Engine

Memory Specs

- 4Gb per VPU LPDDR4 (1600MHz) total: 32Gb

Encoder

- M/JPEG 4K at 60Hz encoder
- H.264/H.265 4K at 30Hz encoder

Interface

- PCIe x4 3.0

OS Support

- Ubuntu 16.04.1/Kernel 4.10.0
- Ubuntu 16.04.3/Kernel 4.14.20
- Windows 10 Enterprise 64-bit

Feature Support

- Intel® OpenVINO toolkit

Supported Network Topology

- AlexNet, GoogleNet v1 & v2, Yolo Tiny* V1 & V2, Yolo V2, MobileNet-SSD, VGG-d , ResNet-18, Faster-RCNN

Dimensions

- 157.5 mm x 68.9 mm x 3 mm

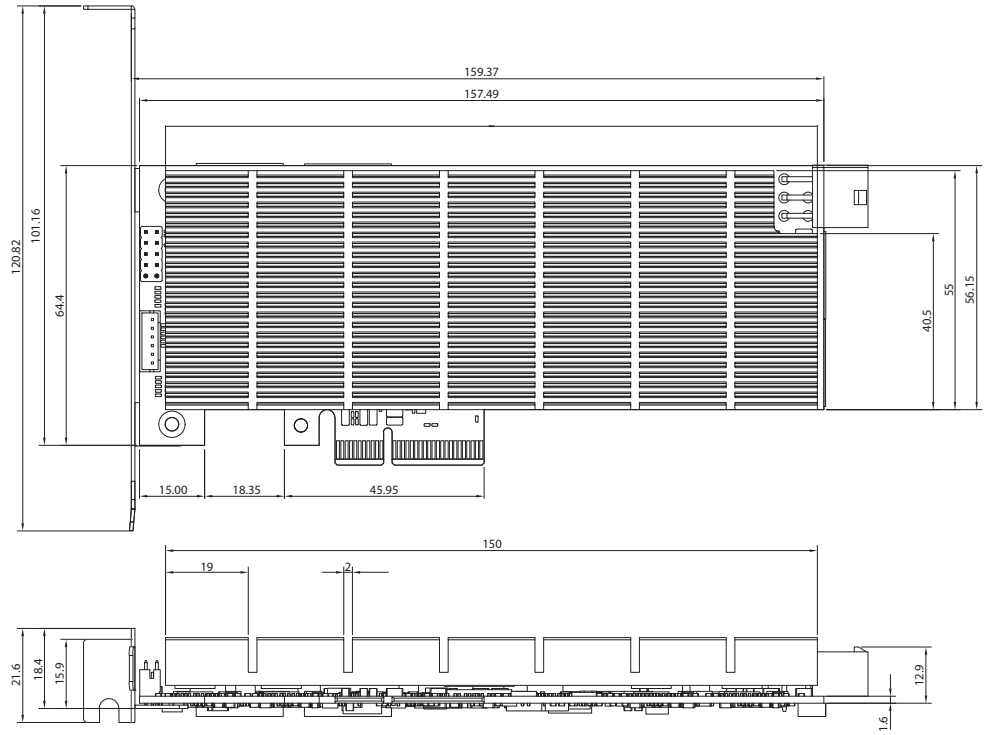
Power Consumption

- < 30 W
- Power connector: preserved PCIe 6 pin 12V external power

Certifications

- CE Approval
- FCC Class A

Dimension Drawing



Ordering Information

- **AIBooster-X8 (P/N: TBC)**
  Intel® Movidius Myriad-X PCie deep learning accelerator card

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