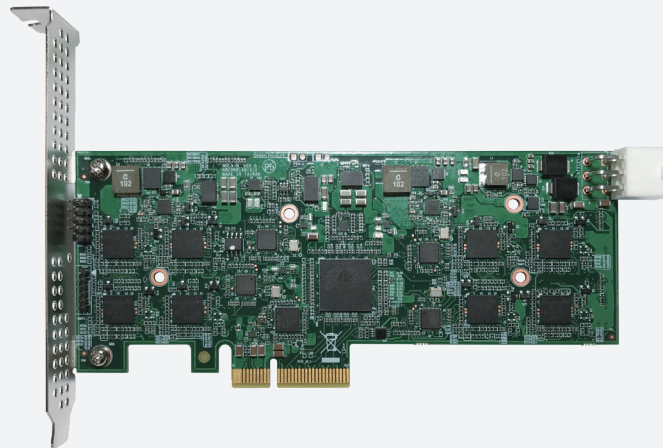
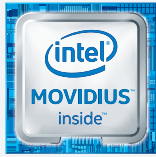


AIBooster-X8

Intel® Movidius™ VPU Myriad-X PCIe Deep Learning Accelerator Card



Main Features

- Intel® Movidius™ VPU Myriad-X 2485 VPUs*8
- PCIe 3.0 by 4
- 4Gb LPDDR4 memory in-package (1600Mhz), 32Gb in total
- MJPEG 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. 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

VPU Engine Specs

- Intel® Movidius™ VPU 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

- MJPEG 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

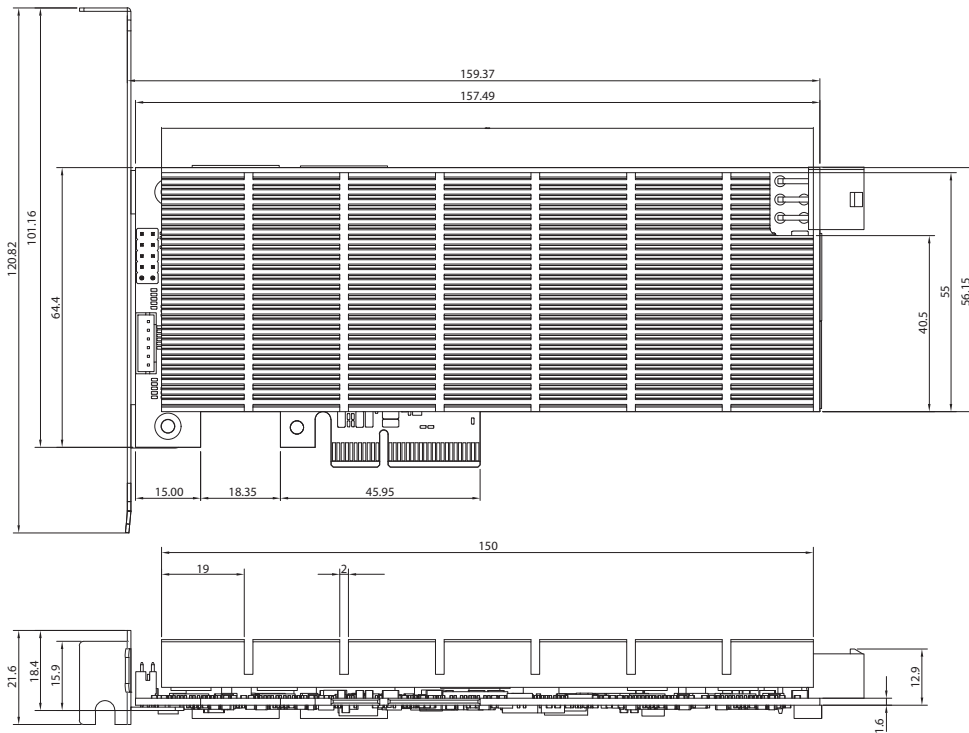
Power Consumption

- < 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™ VPU Myriad-X PCIe deep learning accelerator card