Main Features

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

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
- 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

Operation Temperature
- 0-50°C

Certifications
- LVD
- CE Approval
- FCC Class A
Dimension Drawing

Ordering Information

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