



Main Features

- ♦ Single Myriad X MA2485 VPU
- ♦ mini-PCIe Form Factor
- ♦ Total 4Gb LP-DDR4 SDRAM
- ♦ Support OpenVINO™ toolkit
- ♦ M/JPEG 4K at 60Hz encoder
- ♦ H.264/H.265 4K at 30Hz encoder
- ♦ Low power consumption

Product Overview

AIBooster-X1 module integrated with Intel® Movidius™ VPU drive the demanding workloads of modern computer vision and AI applications at ultra-low power. The dedicated Neural Compute Engine in Myriad X delivers more performance per Watt, and it helps AIBooster-X1 achieves a perfect balance of power efficiency and high performance. Since AIBooster-X1 is also designed for power constrained environments, it provides the ideal solution for device makers seeking to deploy advanced AI mobile applications at the edge.

Specifications

VPU Engine

- ♦ Single Myriad X MA2485 VPU
- ♦ Per VPU with
 - Up to 1 TOPS
 - 16 programmable 128-bit VLIW vector 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

- ♦ Total 4Gb LP-DDR4 SDRAM on chips

Encoder

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

Form Factor

- ♦ mini-PCIe

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

- ♦ 30 x 51 mm

Power Consumption

- ♦ < 8 W

Operating Temperature

- ♦ -30°C to 70°C

Ordering Information

- ♦ **AIBooster-X1 (P/N: 88V000VPU00X0)**

Intel® Movidius™ Myriad X VPU, mini-PCIe module (1 x MA2485)