

Main Features

- ♦ Eight Myriad X MA2485 VPU
- ♦ MXM form factor
- ♦ Total 32Gb LP-DDR4 SDRAM on chips
- ♦ Support OpenVINO™ toolkit
- ♦ M/JPEG 4K at 60Hz encoder
- ♦ H.264/H.265 4K at 30Hz encoder
- ♦ Low power consumption

Product Overview

AIBooster-X8-MXM MXM module integrated with Intel® Movidius™ VPUs 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-X8-MXM achieves a perfect balance of power efficiency and high performance. Since AIBooster-X8-MXM 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

- ♦ Eight 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 32Gb LP-DDR4 SDRAM on chips

Encoder

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

Form Factor

- ♦ MXM (PCIe x4)

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

- ♦ 113 x 82 mm

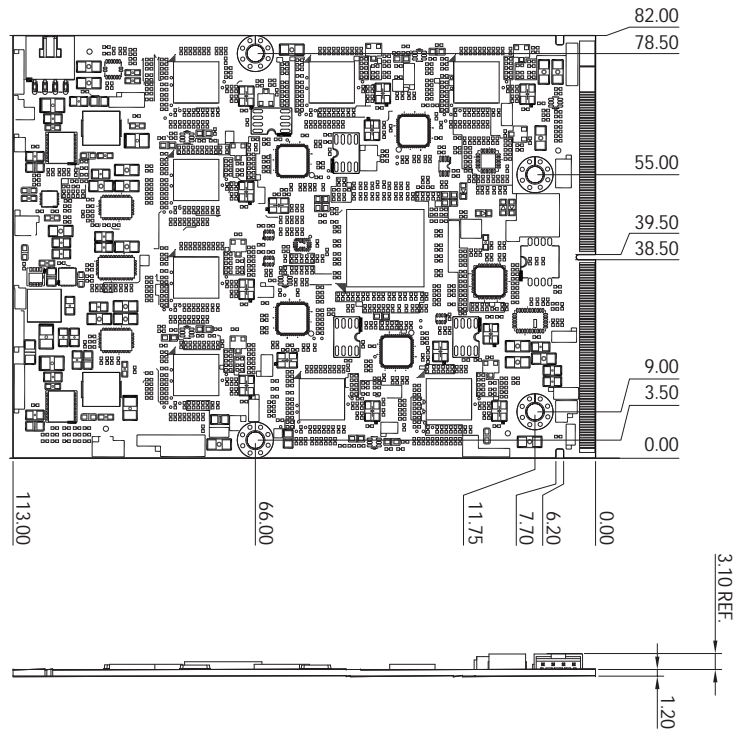
Power Consumption

- ♦ < 30 W

Operating Temperature

- ♦ -30°C to +85°C

Dimension Drawing



Ordering Information

- AIBooster-X8-MXM (P/N: TBD)