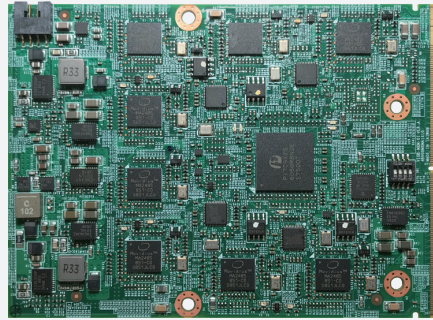


# AIBooster-X8-MXM

Intel® Movidius Myriad X VPU  
Deep Learning Accelerator MXM Module



## 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

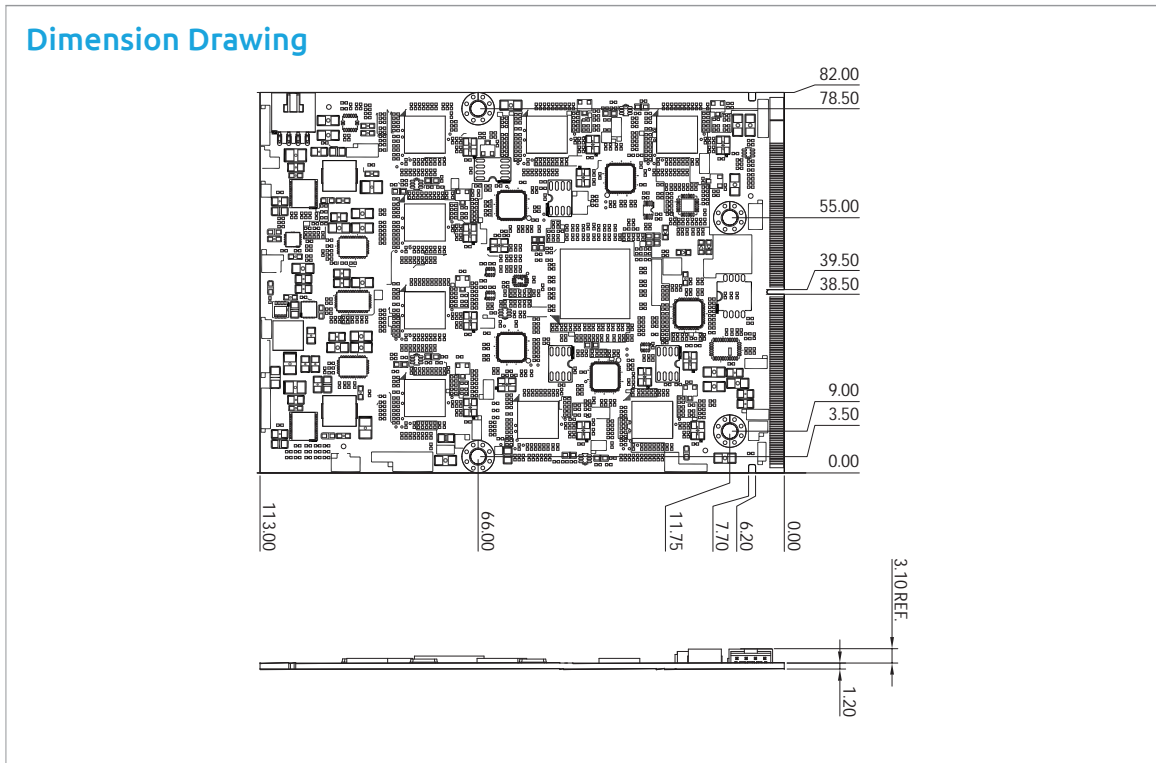
### Operating Temperature

- -30°C to +85°C

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### Dimension Drawing



### Ordering Information

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

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508  
Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050  
Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28  
Business Registration Number: 07699660