

Main Features

- ♦ Single/Dual Intel® Movidius™ Myriad™ X VPU onboard
- ♦ mPCIe form factor (51mm x 30 mm)
- ♦ 4Gbit LPDDR4 memory per VPU
- ♦ Support Intel® OpenVINO™ toolkit
- ♦ M/JPEG 4K at 60Hz encoder
- ♦ H.264/H.265 4K at 30Hz encoder

Product Overview

NexCOBOT AIBooster-L1/L2 card powered by the Intel Movidius™ Myriad™ X VPU with a dedicated neural compute engine is designed to speed up inferences for deep learning programs. The AIBooster card is in mPCIe form factor with an option of single or dual Myriad™ X VPU.

The support for OpenVINO™ toolkit allows developers to deploy pre-trained deep learning models to execute computer vision and deep learning inference.

Intel OpenVINO™ toolkit installation: https://docs.openvinotoolkit.org/latest/_docs_install_guides_installing_openvino_windows.html

Specifications

VPU Engine Specs

- ♦ Single/Dual Intel® Movidius™ Myriad™ X MA2485 VPU
- ♦ Per VPU with
 - Up to 1 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

- ♦ 4Gbit LPDDR4 memory per VPU

Form Factor

- ♦ mPCIe

Dimensions

- ♦ 51(D) x 30 (W) mm

Feature Support

- ♦ Intel® OpenVINO™ toolkit

Power Consumption

- ♦ < 10W

Encoder/Codec

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

OS Support

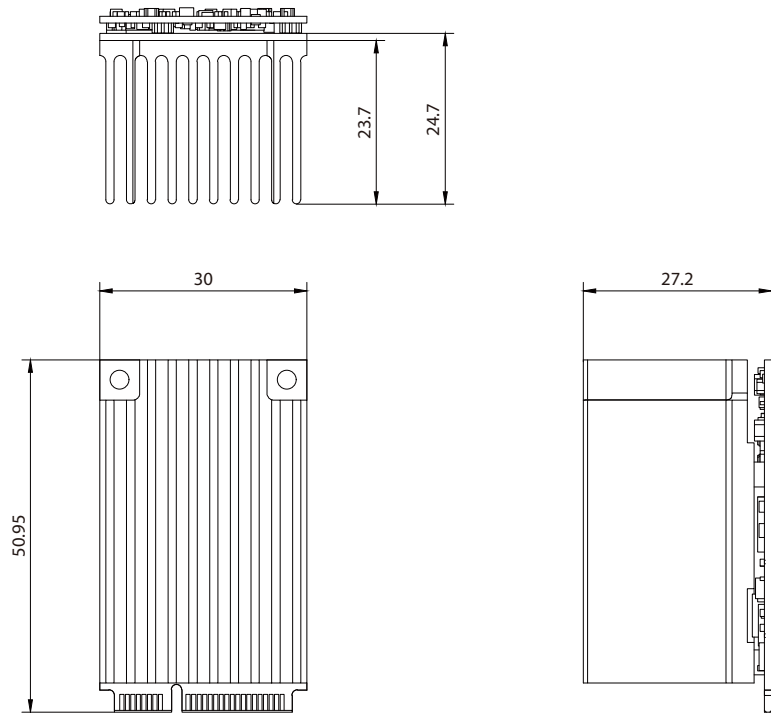
- ♦ Ubuntu 16.04.3 LTS (64 bit)
- ♦ Windows 10 Enterprise 64-bit

Certifications

- ♦ CE Approval
- ♦ FCC Class A



Dimension Drawing



Ordering Information

- **AIBooster-L1 (P/N: 10E000AIB03X0)**
Single Intel Movidius™ Myriad X VPU mPCIe Card
- **AIBooster-L2 (P/N: 10E000AIB04X0)**
Dual Intel Movidius™ Myriad X VPUs mPCIe Card