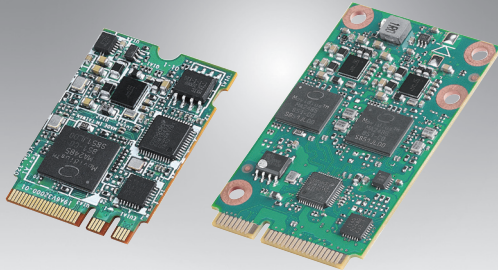


VEGA-320 / VEGA-330

Intel® Movidius™ Myriad™ X Edge AI Module

Preliminary



Features

- Intel® Movidius™ Myriad™ X VPU onboard
- Ultra compact, Low power consumption
- Hardware acceleration for common deep neural networks
- Scalable for multiple video streams edge inference
- 10 times the performance compared to the previous generation
- Intel® OpenVINO™ toolkit fully supported

CE FCC

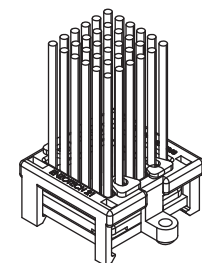
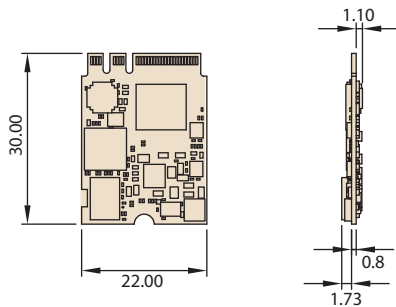
Specifications

	VEGA-320	VEGA-330
SoC	one Myriad X MA2485	Two Myriad X MA2485
Form Factor	M.2 2230 (Key A+E)	Full size Mini PCIe
Dimensions	22mm x 30mm x 3.63mm	30mm x 50.95mm x 4.86mm
Signal Interface	PCIe Gen2 x1, USB 2.0	PCIe Gen2 x1, USB 2.0
Operating temp.	0 ~ 45 °C, with 0.7m/s air flow	0 ~ 45 °C, with 0.7m/s air flow
Power consumption	3.8W	7.6W
Cooling	Passive cooling	Passive cooling
OS support	Windows 10 Enterprise 64bit Ubuntu 16.04.3 LTS (64 bit) CentOS 7.4 (64 bit)	Windows 10 Enterprise 64bit Ubuntu 16.04.3 LTS (64 bit) CentOS 7.4 (64 bit)
OpenVINO	OpenVINO R1 2019 or latest	OpenVINO R1 2019 or latest
Framework support	TensorFlow, Caffe	TensorFlow, Caffe

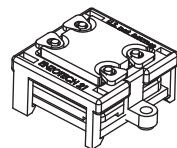
Dimensions

Unit: mm

VEGA-320

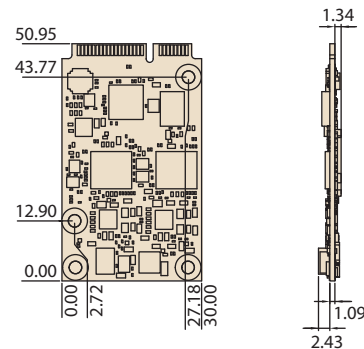


VEGA-320
Standard Heatsink



VEGA-320
Optional Heat Spreader

VEGA-330



VEGA-330
Standard Heatsink

Edge AI Suite Built-in



OpenVINO™ Toolkit

- Model Optimizer
- Inference Engine
- Supports TensorFlow, Caffe, mxnet, ONNX



Pre-Trained Models

- Facial Detection
- Pedestrian Tracking
- Human Pose Estimation



Deployment Wizard

- AI Model Launcher
- Deployment Reference
- CPU/VPU Monitoring

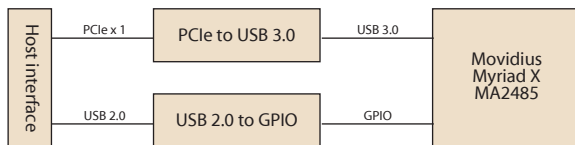


3rd Party AI SDK

- Vehicle Detection
- License Plate Recognition
- Optical Inspection

(Supported by project)

Block Diagram



Ordering Information

Part Number	Description
VEGA-320-01A1	M.2 2230 Intel Myriad X Edge AI acceleration module
VEGA-330-02A1	Full size miniPCIe Intel Myriad X Edge AI acceleration module

Optional items

Part Number	Description
TBD	VEGA-320 heat spreader