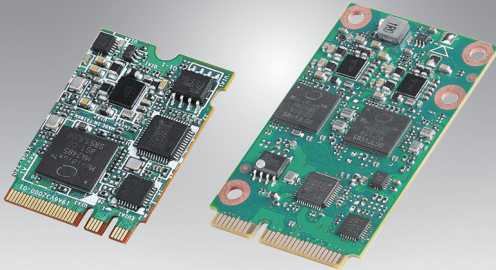


VEGA-320 / VEGA-330

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

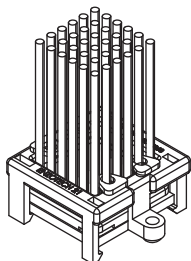
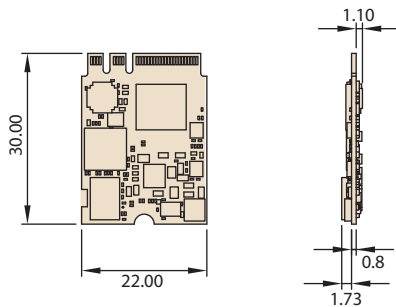
Specifications

| | 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 |

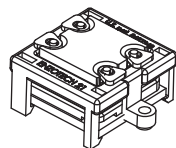
Dimensions

Unit: mm

VEGA-320

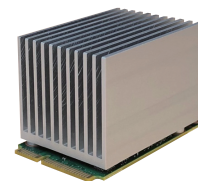
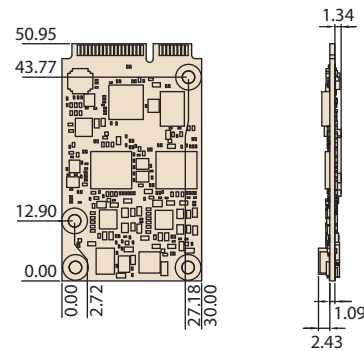


VEGA-320 Standard Heatsink
1960091939T001



VEGA-320
Optional Heat Spreader

VEGA-330



VEGA-330 Standard Heatsink
1960092232T000

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

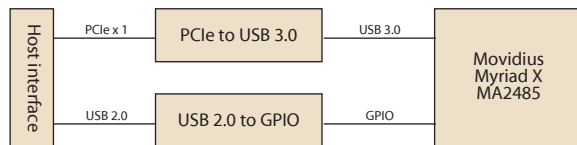


3rd Party AI SDK

- 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 |

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