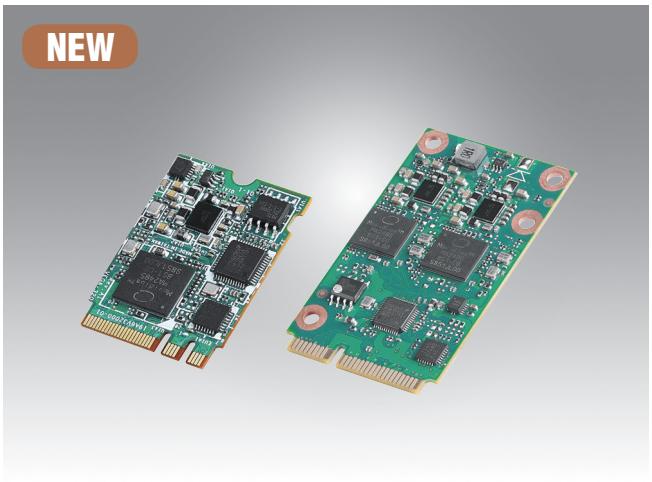
VEGA-320 / VEGA-330

Intel® Movidius™ Myriad™ X Edge AI Module



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-320-01A1	VEGA-330-01A1	VEGA-330-02A1
SoC	One Myriad X MA2485	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 3.63 mm	30mm x 50.95mm x 4.86 mm	
Signal Interface	PCIe Gen2 x1, USB 2.0		
Operating Temp.	-20 ~ 60 °C, with 0.7m/s air flow*	-20 ~ 60 °C, with 0.7m/s air flow*	-20 ~ 55 °C, with 0.7m/s air flow*
Power Consumption	3.8W	3.8W	7.6W
Cooling	Passive Cooling		
OS Support	Windows 10 Enterprise 64bit Ubuntu 16.04.3 LTS (64 bit) CentOS 7.4 (64 bit)		
OpenVINO	OpenVINO R2 2019 or latest		
Framework Support	TensorFlow, Caffe		

*Note: According to operating temperature tests performed with AIR-101 thermal solution.

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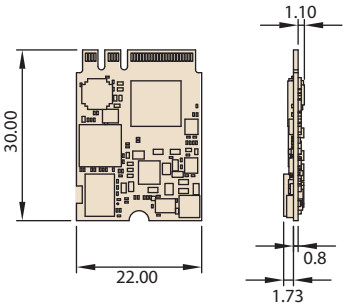
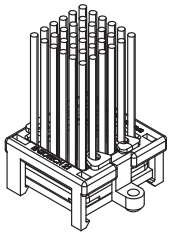
Dimensions

Unit: mm

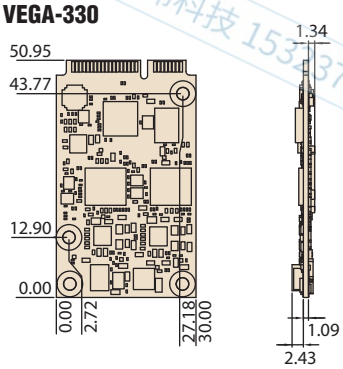
VEGA-320





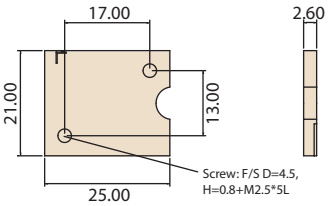
VEGA-320 Standard Heatsink
1960091939T001

VEGA-330

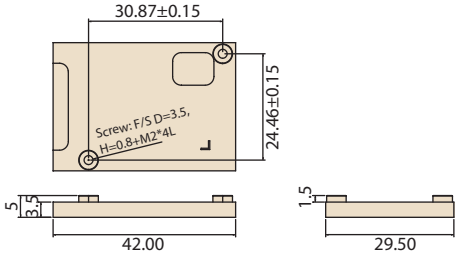


VEGA-330 Standard Heatsink
1960092232T000

VEGA-320 Heat Spreader



VEGA-330 Heat Spreader



All product specifications are subject to change without notice.

Last updated: 12-Nov-2019

Edge AI Suite Built-in

OpenVINO™ Toolkit
- Model Optimizer
- Inference Engine
- Supports TensorFlow, Caffe, mxnet, ONNX

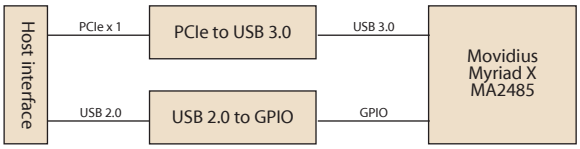
Pre-Trained Models
- Facial Detection
- Pedestrian Tracking
- Human Pose Estimation

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 Edge AI acceleration module with One Intel Myriad X
VEGA-330-01A1	Full size miniPCIe Edge AI acceleration module with One Intel Myriad X
VEGA-330-02A1	Full size miniPCIe Edge AI acceleration module with Two Intel Myriad X

Optional items

Part Number	Description
AMK-A0029	VEGA-320 heat spreader
AMK-A0030	VEGA-330 heat spreader

Packing List

Part Number	Description
VEGA-320-01A1	1 x VEGA-320 card 1 x 1960091939T001 heat sink 1 x Edge AI Suite download card, Startup manual, China RoHS 1 x M.2 screw
VEGA-330-01A1 VEGA-330-02A1	1 x VEGA-330 card 1 x 1960092232T000 heat sink 1 x Edge AI Suite download card, Startup manual, China RoHS 2 x 1930006235-01 (Black), 193B0204C0 (Silver) screws