

VEGA-340

Intel™ Movidius™ Myriad X Edge AI Module

Startup Manual

Packing List

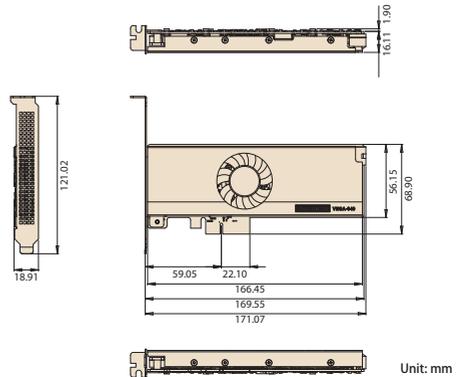
Before you start installing your card, please make sure that the following items have been shipped:

- 1 x VEGA-340 card with heat sink and half height PCIe bracket installed
- 1 x Full height PCIe bracket
- 1 x Startup manual
- 1 x Edge AI suite download card
- 1 x China RoHS

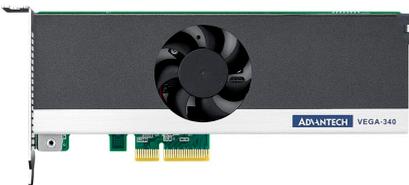
Note: Regarding OpenVINO, you can go to: <https://software.intel.com/en-us/openvino-toolkit> to download the latest version, or you can download Edge AI Suite through download card in VEGA-340 packing list. Edge AI Suite supports the following operating system: Windows 10 Enterprise 64-bit version 1809.

If any of these items are missing or damaged, please contact your distributor or sales representative immediately.

Dimensions

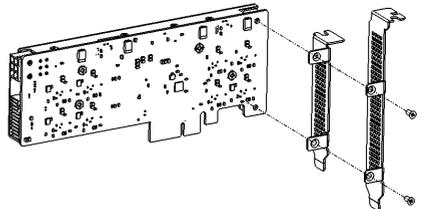


Product Picture



VEGA-340 Installation

1. Identify a suitable PCIe x4 Gen 2 slot on the target platform.
2. If the slot on the target platform requires full height PCIe bracket, please follow the below instructions and figure to change the bracket on VEGA-340:
 - (2-1) Unscrew the 2 screws on the half height bracket originally secured to VEGA-340.
 - (2-2) Replace half height bracket with full height bracket in the packing, and secure the bracket to VEGA-340 with the 2 screws used in step (2-1).



3. Check PCIe generation of host platform. If it is higher than Gen 2, please set "PCIe maximum speed setting" in BIOS to be fixed at "Gen 2" for using VEGA-340.

For more information on this and other Advantech products, please visit our website at:

<http://www.advantech.com>
<http://www.advantech.com/eplatform>

For technical support and service, please visit our support website at:

<http://support.advantech.com>

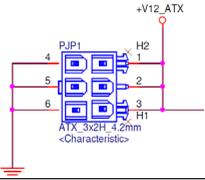
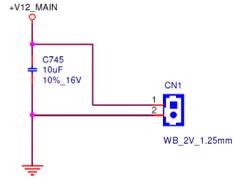
This manual is for the VEGA-340.

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Connectors

Below are the connectors of VEGA-340:

VEGA-340 connector location	Connector	Description	Pin define	Symbol
	C1	PCIe card power from ATX power supply (optional)	PIN1,2,3: +12V PIN4,5,6: GND	
	C2	2 pin PH 1.25mm connector for active fan power.	PIN1: +12V PIN2: GND	

Specifications

	VEGA-340-04A1	VEGA-340-08A1
SoC	Four Intel® Movidius™ Myriad™ X MA2485	Eight Intel® Movidius™ Myriad™ X MA2485
Signal Interface	PCI Express x4 Compliant with PCI Express Specification V2.0	
Power Consumption	Idle Mode. 6.7W Heavy Loading. 16.8W	Idle Mode. 9.6W Heavy Loading. 28W
Cooling	Active fan 12V, 2 pin PH 1.25mm connector	
Operating Temperature	-20 ~ 60 °C	
Power Source	Default power source from PCIe gold finger 6-pin connector for 12VDC input by cable	
Dimensions	171.07 x 68.9 mm	
Operating Systems	Windows 10 Enterprise 64 bit Ubuntu 18.04. LTS, 64-bit	
OpenVINO	OpenVINO 2019 R2 or latest	