

EAI-3101

PCIe x16 Intel® Arc™ A380E Embedded GPU Card Startup Manual

Packing List

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

- 1 x EAI-3101 GPU card with active fan and full-height PCIe bracket installed
- 1 x Startup Manual
- 1 x China RoHS

Note: Regarding OpenVINO, you can go to: <https://www.intel.com/content/www/us/en/developer/tools/opencv-toolkit/overview.html> to download the latest version.

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

Product Picture



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

<http://www.advantech.com>

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

<http://support.advantech.com>

This manual is for EAI-3101.

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Specifications

Product	EAI-3101-41A1
Form Factor	PCI Express x16
GPU	Intel® Arc™ A380E
Memory	GDDR6 6GB
Dimensions (W x H x D)	152 x 110 x 34.8 mm, Dual Slots
Signal Interface	PCI Express Gen 4.0 x8
Temperature	0~60 °C (Depending on the GPU and cooler solution)
Max. Power Consumption	Up to 85 watts
Thermal Solution	Single Active Fan
Power Connector	8-pin power input (required)
Power Range	DC 12V input
Display I/O Ports	DP 4 x DisplayPort 1.4a, 7680 x 4320 @ 60Hz, 8K
Graphics Engine	DirectX 12, OpenGL 4.6, OpenCL 3.0 HW Encode: H.264/H.265 (HEVC)/AV1 HW Decode: H.264/H.265 (HEVC)/AV1/VP9

Motherboard Requirements

- Above 4G Decoding enabled
- Resizable (Re-Size) BAR support enabled
- Compatibility Support Module (CSM) or Legacy Mode must be disabled and UEFI boot mode must be Enabled.

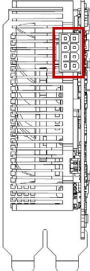
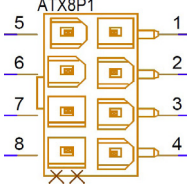
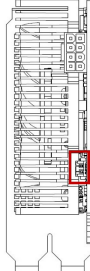
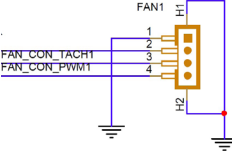
Notes: The procedure to enable the resizable BAR may be different for each system manufacturer. Please check with your system manufacturer for specific instructions as necessary.

The Resizable BAR option may be described as Re-Size BAR, Smart Access Memory, or Clever Access Memory.

Visit the Intel website to get more information: <https://www.intel.com/content/www/us/en/support/articles/000091128/graphics.html>

Connectors

Below are the connectors for EAI-3101:

Connector Location	Connector	Description	Pin Definitions	Symbol
 <p>ATX8P1</p>	ATX8P1	PCIe Card Power from ATX power supply	PIN1: +12V _{DC} PIN2: +12V _{DC} PIN3: +12V _{DC} PIN4: GND PIN5: GND PIN6: GND PIN7: GND PIN8: GND	
 <p>FAN1</p>	FAN1	4-Pin Fan Connector	PIN1: GND PIN2: +12V _{DC} PIN3: FAN TACH PIN4: FAN PWM	

Dimensions

