

MIOe-UMXM USB4-to-MXM GPU Carrier Card, MI/O-Extension Module

Startup Manual

Packing List

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

- 1 x MIOe-UMXM
 - 1 x SMBUS Cable 25 cm (p/n: 1700033258-01)
 - 1 x USB4 cable 20cm (p/n: 1700034699-01) (Optional)
- If any of these items are missing or damaged, please contact your distributor or sales representative immediately.

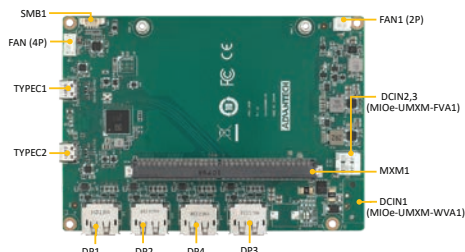
Note 1: For detailed contents regarding MIOe-UMXM, please refer to information on the support website: <http://support.advantech.com.tw>.

Note 2: Adobe Reader is required to view any PDF file. Adobe Reader can be downloaded at: <http://get.adobe.com/tw/reader/otherversions/>. (Adobe is the trademark of Adobe Systems Incorporated.)

Specifications

General

- Expansion:** MXM expansion slot
- Display:** 4 x Display Port
- Internal I/O:**
 - 2 x USB4 Type-C (Lotes/ AUSB0494-P203A)
 - 1 x SMBus (Aces/ 85205-04001)
 - 1 x 2P fan (J.S.T. B2B-XH-A(LF)(SN))
 - 1 x 4P fan (Pinrex 744-81-04TW30 or 744-81-041TWR030)



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://service.advantech.com.tw/support/>

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Specifications (Cont.)

Internal I/O:

- Dimensions (L x W): 140 x 100 mm

Part No.	MXM support type	MXM TGP	Power DC-in	Power connector
MIOe-UMXM-WVA1	Type A	Up to 60W	12-24V	2P Phoenix
MIOe-UMXM-FVA1	Type A, B, B+	Up to 115W	12V	2x2 ATX

Notice for MIOe-UMXM Use

Enable MIOe-UMXM

- Connect USB4 Type-C cable(p/n 1700034699-01): MIOe-UMXM [TYPEC1, TYPEC2] and MIO-5377 [TYPEC2].
- Connect SMBus cable(p/n: 1700033258-01): MIOe-UMXM [SMB1] and MIO-5377 [CN6].
- Power on MIOe-UMXM.
- Power on MIO-5377.
- MIO-5377 detects MXM fan signals through [CN6].

*MIOe-UMXM should be ready before MIO-5377 power on.

Change MXM GPU card

- Power off both MIOe-UMXM and MIO-5377.
- Change GPU MXM under power off condition.
- Connect USB4 Type-C cable.
- Connect SMBus cable.
- Power on MIOe-UMXM first.
- Power on MIO-5377.

* MIOe-UMXM should be ready before MIO-5377 power on.

MIO-5377 I2C/ SMBus

- MIO-5377[CN6] can support MIOe-UMXM in either I2C/ SMBUS.
- MIO-5377 EC detects MXM fan signals through [CN6] I2C/SMBUS.
- MIO-5377 I2C/SMBus will be occupied for MIOe-UMXM device.
- When detected, MXM module provide: (a) MXM temperature, (b) MXM fan infos to SUSI; BIOS collect above MXM information to HW monitor page.
- If not connecting SMBus cable, MIOe-UMXM can still allow MXM module cooler to operate at full speed.

USB4 Host for MIOe-UMXM

- MIO-5377, MIO-5377R is tested compatible with MIOe-UMXM.
- Any other board providing USB4 with PCIe shall be compatible to MIOe-UMXM.