



## **NVIDIA RTX A4500 MXM 3.1 Type B module**

The EMB-G663-A0 MXM 3.1 Type B module features a NVIDIA RTX A4500 embedded graphics processor based on NVIDIA Ampere architecture. It provides graphics intensive acceleration and real time ray-tracing capability for applications like scientific and medical visualization, digital content creation (DCC), artificial intelligence (AI) and machine learning (ML).





## **SPECIFICATIONS**

GPU model NVIDIA RTX A4500

SKU EMB-G663-A0

GPU Product P/N EN20-E3-A1

GPU architecture Ampere architecture with 5,888 CUDA parallel processor cores and 184 Gen3 Tensor cores

**GPU/Boost Clock** 1,020Mhz, 1,575MHz

**Graphics Memory** 16 GBytes 256-bit GDDR6

Memory Bandwidth 512 GB/s

**ECC function** Support ECC, default disabled, user configureable from Nvidia control panel

**Graphics Performance** Max. FP 32 Pref. 17.66TF

Form Factor MXM 3.1 Type B. 82mm(W) x 105mm (L)

Weight 61.6 grams

Host interface PCI Express 4.0 x16 lanes. Also support x4 / x8 lanes

Display output 4 x DisplayPort 1.4a. Simultaneous 4 output. Maximum resolution of each port 8K UHD@60Hz (7690x4320)

Support HDR, HDCP 1.2/1.4. (eDP, LVDS, VGA, USB-C display output are not supported)

BIOS 16 Mbit UEFI Serial ROM

**Input voltage** DC 12~19V, 3.3V & 5V; +/-5%

**Power consumption** 125W Total Graphics Power (TGP)

Cooling System Not included. Custom design available on request

Ambient Operating: Temperature 0°C ~ 55°C with air flow. Humidity 10% - 90%, non-condensing

 $(Ambient\ operating\ temperature\ range\ stated\ above\ is\ based\ on\ PC\ Partner's\ reference\ cooler.\ In\ customer's$ 

system the operating temperature range depends on thermal mechanical design.)

Storage: Temperature -25°C ~ 80°C. Humidity 10 ~ 90%, non-condensing

Supported API DirectX 12 Ultimate, Shader Model 7.0, OpenGL 4.6, Vulkan

Supported OS Windows 10, Windows 11 64-bit, Linux 64-bit

Conformal Coating None. Available on request

Packing Non-brand bulk pack

Compliance RoHS 2

MTBF Approximately 79,902 hours at 25°C

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