



## NVIDIA RTX A2000 MXM 3.1 Type B module

The EMB-G662-A1 MXM 3.1 Type B module features a NVIDIA RTX A2000 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 A2000
SKU	EMB-G662-A1
GPU Product P/N	EN20-P3-A1
GPU architecture	Ampere architecture with 2,560 CUDA cores and 80 Gen3 Tensor cores
GPU/Boost Clock	1,387Mhz, 1,815MHz
<b>Graphics Memory</b>	8 GBytes 128-bit GDDR6
Memory Bandwidth	192 GB/s
ECC function	Support ECC, default disabled, user configureable from Nvidia control panel
<b>Graphics Performance</b>	Max. FP 32 Pref. 8.25TF
Form Factor	MXM 3.1 Type B. 82mm(W) x 105mm (L)
Weight	47.5 gram
Host interface	PCI Express 4.0 x8 lanes. Also support x4 lanes
Display output	4 x DisplayPort 1.4. 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	80W 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
<b>Conformal Coating</b>	None. Available on request
Packing	Non-brand bulk pack
Compliance	RoHS 2
MTRE	Approximately 107, 984 bours at 25°C

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