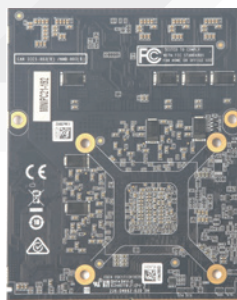
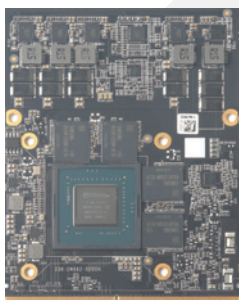


NVIDIA RTX A1000 MXM 3.1 Type B module

The EMB-G662-B0 MXM 3.1 Type B module features a NVIDIA RTX A1000 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 A1000
SKU	EMB-G662-B0
GPU Product P/N	EN20-PI-A1
GPU architecture	Ampere architecture with 2,048 CUDA cores and 64 Gen3 Tensor cores
GPU/Boost Clock	1,470Mhz, 1,822MHz
Graphics Memory	4 GBytes 128-bit GDDR6
Memory Bandwidth	192 GB/s
Graphics Performance	Max. FP 32 Pref. 6.66TF
Form Factor	MXM 3.1 Type B. 82mm(W) x 105mm (L)
Weight	47.5 grams
Host interface	PCI Express 4.0 x8 lanes. Also support x4 lanes
Display output	4 x DisplayPort 1.4. Max simultaneous 4 output. Max resolution of each port 8K UHD@60Hz. 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
Packing	Non-brand bulk pack
Compliance	RoHS 2
MTBF	Approximately 107,992 hours at 25°C