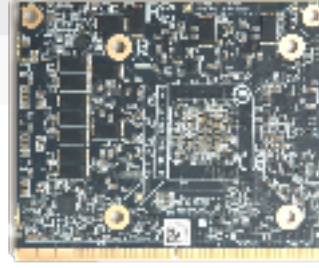


NVIDIA RTX 2000 MXM 3.1 Type A module

The EMB-G733-A0 MXM 3.1 Type A module features a NVIDIA RTX 2000 embedded graphics processor based on NVIDIA Ada Lovelace Architecture. The Ada GPU architecture has been designed to provide revolutionary performance for ray tracing and AI-based neural graphics. It delivers a dramatically higher baseline of GPU performance and marks the tipping point for ray tracing and neural graphics. It delivers outstanding gaming and creating, professional graphics, AI, and compute performance.



SPECIFICATIONS

GPU model	NVIDIA RTX 2000
SKU	EMB-G733-A0
GPU Product P/N	EN21-X4, 29x 29mm, 1358-ball BGA (GB5B-128) package
GPU Architecture	Ada Lovelace architecture w/ 3,072 CUDA parallel processor cores, 24 Gen3 RT Core & 96 Gen4 Tensor cores
Host interface	PCI Express 4.0 x4 lanes. Also support x8 lanes
GPU/Boost Clock	1,635MHz, 2,115MHz @ 60W TGP
Graphics Memory	128-bit, 8 GB GDDR6
Memory Bandwidth	256 GB/s
ECC Function	Support ECC, default disabled, user configurable from Nvidia control panel or nvidia-smi command
Max. Single Perf.	Max. Single precision perf. FP 32 Pref. 13 TFLOPS
Form Factor	MXM 3.1 Type A. 82mm(W) x 70mm(L)
Weight	t.b.c
Display output	3 DisplayPort 1.4a. Simultaneous 3 output. Maximum single resolution 8K UHD@60Hz (7690x4320) Support HDR, HDCP 1.2/1.4. (eDP, LVDS, VGA, USB-C display output are not supported)
BIOS	16Mbit Serial ROM
Input voltage	DC 12-19V, 3.3V & 5V; +/-5%
Power consumption	60 Watts Total Graphics Power (TGP)
Cooling System	Not included. Custom design available on request
Ambient	Temperature Operating: 0°C - 55°C with air flow. Humidity 10% - 90%, non-condensing Temperature Storage: -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 IoT LTSC 64-bit, Windows 11, Linux 64-bit
Conformal Coating	None. Available on request
Packing	Non-brand bulk pack, Two screws included. 20pcs/carton.
Compliance	RoHS 2
MTBF	~132,451 hrs