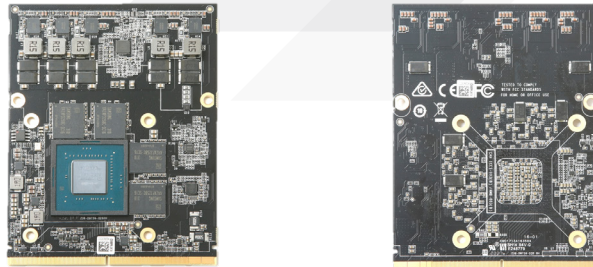


NVIDIA RTX 2000 MXM 3.1 Type B module

The EMB-G736 MXM 3.1 Type B module features a NVIDIA RTX 2000 embedded graphic 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-G736-A0 |
| NVIDIA Product P/N | EN21-X4, 29x 29mm, 1358-ball BGA (GB5C-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 | 2,295MHz, 2,395MHz @ 115W TGP |
| Graphics Memory | 128-bit, 256 GB/s, 8 GB GDDR6 |
| ECC Function | Support ECC, default disabled, user configurable from Nvidia control panel or nvidia-smi command |
| Max. Single Perf. | Maximum FP 32 single precision perf. 14.5 TFLOPS |
| Form Factor | MXM 3.1 Type B. 82mm(W) x 105mm(L), 10 layers PCB |
| Weight | 49.3 grams |
| 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 | 115 Watts 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 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 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 | 130,029 hours at 25°C |