



NVIDIA RTX A1000 MXM 3.1 Type A module

The EMB-G665-C0 MXM 3.1 Type A 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-G665-C0

GPU Product P/N EN20-P1-A1

GPU architecture Ampere architecture with 2,048 CUDA cores and 64 Gen3 Tensor cores

GPU/Boost Clock 1,192Mhz, 1,627MHz

Graphics Memory 4 GBytes 128-bit 6 GHz GDDR6

Memory Bandwidth 192 GB/s

Graphics Performance Max. FP 32 Pref. 6.66TF

Form Factor MXM 3.1 Type A. 82mm(W) x 70mm(L)

Weight Approximately 34.8 grams

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

 $\textbf{Display output} \quad \text{4x Display Port 1.4. Simultaneously 4 output. Max resolution of 8K UHD@60Hz (7680 \times 4320)}$

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

BIOS 16 Mbit UEFI Serial ROM

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

Power consumption 60W Total Graphics Power (60W 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, Open GL 4.6, Vulkan

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

Conformal Coating Available on request

Packing Non-brand bulk pack

Compliance RoHS 2

MTBF Approximately 109,809 hours at 25°C

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