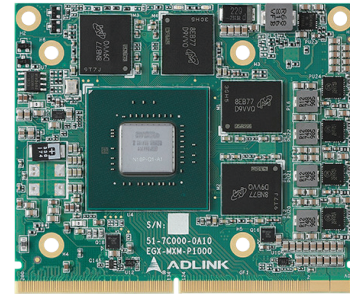


EGX-MXM-P1000

Mobile PCI Express Module with NVIDIA® Quadro® Embedded P1000

Features

- Standard MXM 3.1 Type A form factor (82 x 70 mm)
- 512 NVIDIA® CUDA® cores
- 1.8 TFLOPS SP peak performance
- 4GB GDDR5 memory, 128-bit
- 96GB/s maximum memory bandwidth
- Support up to 4 UHD displays, 48W TDP
- 5-year availability



Introduction

The EGX-MXM-P1000 features advanced NVIDIA Quadro GPU with NVIDIA Pascal™ Architecture technology in MXM 3.1 Type A form factor. The EGX-MXM-P1000 has 512 NVIDIA CUDA cores and a peak single-precision floating-point performance of 1.8 TFLOPS. The EGX-MXM-P1000 has 4GB of GDDR5 memory and supports NVIDIA GPUDirect™ RDMA which helps increase data throughput by up to 80% and consequently system responsiveness by up to 60%*. Additionally, 4 UHD display outputs and an extended operating temperature range of -40°C to 85°C are supported. The embedded graphics product is suitable for mission-critical harsh-environment edge computing applications with size, weight, and power (SWaP) and network connectivity constraints.

Ordering Information

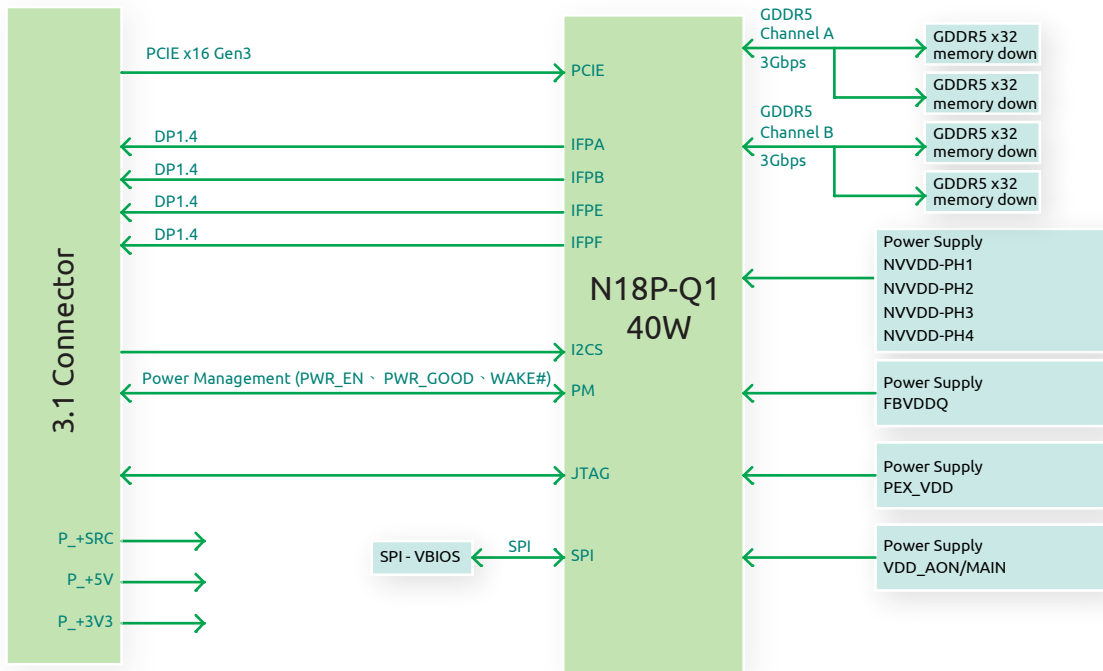
- **EGX-MXM-P1000**
NVIDIA Quadro Embedded P1000, MXM 3.1 type A, 82 x 70mm, PCIe x16 Gen3

Specifications

| | EGX-MXM-P1000 |
|--------------------------|--|
| Graphic Core | |
| GPU | Quadro® P1000 |
| Memory | 4GB GDDR5 memory, 128-bit, Bandwidth: 96 GB/s |
| GPGPU Computing | |
| CUDA Cores | 512 CUDA® cores, 1.8 TFLOPS SP Peak CUDA Toolkit 8.0, |
| Compute API | CUDA Compute version 6.1, OpenCL™ 1.2 |
| Graphics API | DirectX® 12, OpenGL 4.5, Vulkan 1.0 |
| Display | |
| Display Outputs | 4x DisplayPort 1.4 digital video outputs (DP++) 4K at 120Hz or 5K at 60Hz |
| Interface | MXM 3.1, PCI Express Gen3 x16 support |
| Mechanicals | |
| Dimensions | 82 (W) x 70 (D) x 4.8 (H) mm |
| Form Factor | Standard MXM 3.1 Type A |
| Environmental | |
| Operating Temp. | Standard: 0°C to 55°C, -40°C to 85°C |
| Storage Temp. | -40°C to 85°C |
| Module Power Consumption | 48W |
| SW | |
| OS Support | Windows 10 & Linux drivers, 64-bit |

* The software and workloads used in performance tests were optimized for performance on ADLINK platforms. Performance tests are measured using specific computer systems, components, software, operations and functions. Any changes to these factors may cause the results to vary. Contact ADLINK for more complete information about performance and benchmark results.

Block Diagram



Mechanical Drawing

