

## EMBEDDED SOLUTIONS NVIDIA® QUADRO® P1000

### NVIDIA QUADRO PERFORMANCE AND FEATURES IN AN MXM TYPE-A FORM FACTOR.

The MXM-P1000 features advanced NVIDIA Quadro GPU with NVIDIA Pascal™ Architecture technology in MXM 3.1 Type A form factor. The MXM-P1000 has 512 NVIDIA CUDA cores and a peak single-precision floating-point performance of 1.8 TFLOPS. The 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.

### THE PNY ADVANTAGE

PNY provides unsurpassed service and commitment to its embedded and OEM graphics customers, including extensive pre-sales development and technical consulting by dedicated NVIDIA Quadro Field Application Engineers, access to specialized documentation required for systems integration (e.g. Thermal Design Guides), bug reporting, product lifecycle management information, and much more.

For additional information or other product inquiries email

### P1000 MODULE FEATURES

- > NVIDIA® Quadro® P1000 embedded graphics based on NVIDIA® Pascal™ architecture
- > 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

### ENVIRONMENTAL

- > Operating temperature range of 0°C to 55°C
- > Storage temperature -40°C to 85 °C

### WARRANTY AND SUPPORT

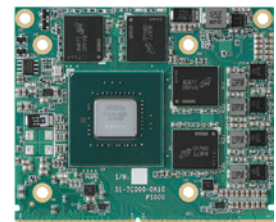
- > 2-year warranty
- > Pre- and post-sales technical support
- > Field Application Engineers available
- > U.S. based technical support hot line

### PNY PART NUMBERS QP1000ET-KIT

Graphic Architecture	NVIDIA® Pascal™
GPU	NVIDIA Quadro® P1000
Memory	4GB GDDR5 memory, Memory width: 128-bit, Bandwidth: 96 GB/s
CUDA Cores	512 CUDA® cores, 1.8 TFLOPS SP Peak
Compute API	CUDA Toolkit 8.0, CUDA Compute version 6.1, OpenCL™ 1.2
Graphics API	DirectX® 12, OpenGL 4.5, Vulkan 1.0
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
Dimensions	82 (W) x 70 (D) x 4.8 (H) mm
Form Factor	Standard MXM 3.1 Type A
Operating Temp.	Standard: 0 to 55°C, EIT: -40°C to 85°C
Storage Temp.	-40°C to 85°C
Module Power Consumption	48W
OS Support	Windows 10 & Linux Drivers, 64-bit

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