



EMBEDDED SOLUTIONS NVIDIA® TESLA® P6

Quadro Performance and Features in an MXM Type-B Form Factor.

The NVIDIA Tesla P6 MXM interface module offers the same Tesla performance, features, SDK and API support, exacting build standards, rigorous quality assurance, and broad ISV application compatibility, as desktop PCIe or SXM based Tesla products, is an ideal blade server option, and is optimized for GPU virtualization.

Designed for the needs of server, embedded, ruggedized, or mobile system builders, the P6 makes Tesla compute capabilities available to form factors unsuited for traditional PCI Express expansion cards. It tolerates wide-ranging thermal and other environmental conditions, is ideal for blade or other deployments where high GPU density is an important consideration, offers ECC GPU memory support, extremely reasonable power requirements, and supports all industry leading GPGPU (General Purpose GPU) compute APIs.

Coupled with NVIDIA's CUDA® parallel computing platform and programming model, you can send C, C++ and Fortran code straight to the Tesla P6 GPU, no assembly language required, realizing considerable cost and time to market advantages over competing FPGA or ASIC approaches.

THE PNY ADVANTAGE

PNY provides unsurpassed service and commitment to its embedded and OEM Tesla customers, including extensive pre-sales development and technical consulting by specialized Field Application Engineers, access to technical 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 MXM@pny.com.

P6 MODULE FEATURES

- > MXM 3.1 Type B form factor (82 mm x 105 mm)
- > 2048 CUDA cores
- > 6.1 TFLOPS peak FP32 performance
- > 16 GB GDDR5 ECC memory
- > vGPU Profiles 1 GB, 2 GB, 4 GB, 8 GB, 16 GB
- > 192 GB/s peak memory bandwidth
- > Maximum power 90 W (70 W optional)
- > 5-year availability

ENVIRONMENTAL

- > Operating temperature range of 0 °C to 55 °C
- > Storage temperature -40 °C to 125 °C
- > Operating RH 5% to 90%
- > Storage RH 5% to 95%
- > GPU shutdown temperature 91 °C
- > GPU slowdown temperature 88 °C
- > GPU maximum operating temperature 86 °C
- > GPU hardware slowdown amount 50%

WARRANTY AND SUPPORT

- > 3-year warranty
- > Pre- and post-sales technical support
- > Field Application Engineers available
- > U.S. based technical support hot line

PNY PART NUMBERS TCSCP6-KIT

Graphics APIs	Shader Model 5.1, OpenGL 4.5 ⁴ , DirectX 12.0 ⁵ , Vulkan 1.0 ⁴
Compute APIs	CUDA, DirectCompute, OpenCL™
Operating System Support	Windows Linux



TESLA P6

NVIDIA QUADRO
AUTHORIZED PARTNER



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For more information visit: www.pny.com/MXM