

VPX3U-GTX980M



3.1 TFLOPS CUDA PERFORMANCE IN A RUGGEDIZED VIDEO GRAPHICS BOARD

KEY FEATURES

- NVIDIA® Maxwell GM204 28nm GPU
- CUDA General Purpose GPU Engine
- 31.0 GFLOPs/Watt
- PCIe Gen3 up to x16

ADDITIONAL FEATURES

- 3,189 GFLOPs CUDA Single Precision GPGPU
- 103 Watt TDP
- 3 simultaneous video outputs:
 - 2 DisplayPort and 1 VGA
 - 1 DisplayPort, 1 HDMI and 1 VGA
 - Optional custom configurations are also available
- 8GB GDDR5 256-bit memory
- 1536 Shader Cores
- Advanced GPGPU parallel processing capabilities:
CUDA, OpenCL™ 1.1, DirectCompute
- DirectX 12.1, OpenGL 4.5

SPECIFICATIONS

- High level of ruggedization
 - MIL-STD-810, IPC 6012 Class-3
 - -40° to +85°C operating temperature
 - 40g, 11ms shock and 0.2g²/Hz@ 5 - 2000Hz vibration
 - Conduction-cooled
 - Rugged air-cooled
- Windows 7 and Linux drivers
- VPX 3U form factor: 160×100 mm
- Supports VPX-REDI and OpenVPX

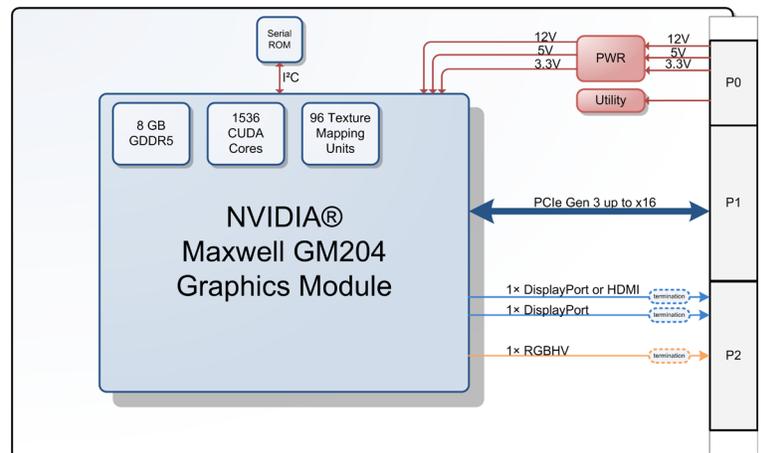
OVERVIEW

WOLF's VPX3U-GTX980M board leverages NVIDIA's latest Maxwell 28nm GPU technology, bringing near-desktop performance to a ruggedized embedded platform.

Utilizing the world's most advanced GPU architecture, this ruggedized board is capable of a staggering 3,189 GFLOPs of single-precision CUDA processing, and can perform precision-intensive complex calculations such as video stabilization, image processing, terrain analysis, object tracking or 3D visualization of geospatial data.

Due to the critical importance of size, weight and power (SWaP) in aerospace and defense applications, each ruggedized VPX3U-GTX980M video graphic board is individually tuned to a moderate performance level, in order to maximize GPGPU capability while minimizing power usage. WOLF will then incrementally increase the performance level as necessary, to fit within the available overall system power budget.

Additionally, using the VPX3U-GTX980M in conjunction with any of WOLF's Frame Grabber eXtreme (FGX) products unlocks the ability to bypass all SBC data rebroadcast traffic jams with direct memory access (DMA) to GPU memory.



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