

# VPX3U-QUADRO-M3000SE

HIGH-PERFORMANCE NVIDIA® QUADRO®, 1.9 TFLOPS, 3 VIDEO OUTPUTS

## Key Features

- NVIDIA Quadro GM204 Maxwell-2 28nm GPU:
  - 1900 GFLOPS single precision (32-bit)
  - 4GB GDDR5, 256-bit memory
  - 1024 NVIDIA CUDA cores
- 3 simultaneous video outputs
- GPUDirect DMA
- Operating power 25 - 75 Watts

## Additional Features

- Up to 3 simultaneous video outputs:
  - 2 DisplayPort 1.2 and 1 VGA
  - 1 DisplayPort 1.2, 1 HDMI and 1 VGA
  - 2 DisplayPort 1.2 on front for air-cooled configurations
  - Optional custom output configurations are available
- Memory Bandwidth: 160 GB/s
- ECC memory support
- PCIe x16 Gen3
- NVENC accelerator for H.265/H.264 encoding
- Advanced GPGPU parallel processing capabilities: CUDA™, OpenCL™ 1.1, DirectCompute DirectX 12, OpenGL 4.5

## Specifications

- High level of ruggedization
  - MIL-STD-810, IPC 6012 Class-3
  - -40 to +71°C operating temperature
  - 20g, 11ms shock
  - 0.1g<sup>2</sup>/Hz@ 5 - 2000Hz vibration
  - Conduction-cooled or Rugged air-cooled
- Windows and Linux drivers
- VPX 3U form factor: 160×100 mm
- Supported VPX configurations:
  - VPX REDI (ANSI/VITA 48.x)
  - OpenVPX (ANSI/VITA 65)

## Overview

WOLF's VPX3U-QUADRO-M3000SE board includes a high-performance NVIDIA Quadro GPU processor in a rugged, reliable product.

The board uses NVIDIA's Maxwell-2 28nm GPU technology, and the GPU can drive up to three video display outputs. As well as the standard outputs an MCOTS version of this board can provide additional video output options.

This ruggedized board is capable 1900 GFLOPS of single-precision CUDA processing. This provides high data throughput for computations that benefit from advanced parallel processing, 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 video board can be tuned to meet the required performance while minimizing power usage.





### 3U VPX QUADRO M3000SE

