

VPX-3U-HD7970M

2 TFLOPs 3U VPX-REDI GPGPU Processor (Double-Precision capable)

FEATURES

- AMD™ Radeon™ HD7970M GPU offers:
 - 6 Independent Digital DisplayPort Outputs
 - GPGPU: 2.176 TFLOPs peak performance (single-precision)
 - GPGPU: 136 GFLOPs peak performance (double-precision)
 - RAM: 2GB GDDR5 256-bit, with 154 GB/s Memory Bandwidth
 - PCIe Interface: x1, x2, x4, x8, or x16 lanes PCIe 1, 2, or 3.0
 - Shader Processing Units: 1,280
- DirectX® 11; OpenGL® 4.2
- OpenCL™ compliant:
 - OpenCL™ 1.2
 - AMD™ Stream Computing
 - DirectCompute 11
- 28nm Process Technology
- Motion Video Decode:
 - UVD4 for H.264, VC-1, MVC, MPEG-2, MPEG-4 part 2 decoding
- Minimum 3 year product availability

OVERVIEW

The VPX-3U-HD7970M is a 3U VPX-REDI card integrating a **high-performance video graphics module**, powered by AMD's Radeon™ HD 7970M GPU.

Ideally suited for GPGPU applications, the VPX-3U-HD7970M has a high performance/watt general-purpose GPU floating-point processing capacity, in a 3U form-factor with a theoretical peak performance of over **2 TFLOPs**.

Designed for military and aerospace requirements: MIL-810, IPC-610 Class 3, RIAC, air-cooled or conduction-cooled, extended temperature **-40°C to +71°C** as measured on the thermal conductive rail. The VPX-3U-HD7970M is well matched for any application that requires military-grade high-performance GPGPU double-precision processing power.



(actual product may not be exactly as shown)

CUSTOM CONFIGURATIONS:

WOLF offers OEMs customized video configurations on all of its Video Graphic Modules, guaranteeing the perfect fit to your product.

WOLF Industrial Systems Inc.

2 Campbell Drive, Unit 100, Uxbridge, Ontario, L9P 1H6, Canada

Toll-free: 800 931-4114

Tel: 905-852-1163

Fax: 905-852-1735

sales@WOLF.ca

www.WOLF.ca

The Radeon™ HD7970M GPU modules integrated into the VPX-3U-HD7970M unit are members of WOLF's Video Graphic Modules family, and can be combined with WOLF's specially-designed PICO modules to allow for a multitude of video output combinations comprised of the following: DisplayPort™, HDMI, DVI, TMDS, LVDS.

VIDEO OUTPUT OPTIONS:

- DisplayPort™ 1.1a, 2.0
- LVDS
- TMDS
- HDMI 1.4a

Environmental Specs

Supply Voltage:	+3.3V and +5V and +12V DC
Power Consumption:	typical 40 - 80 watts; (tunable)
Dimensions:	3U VPX VITA 46.0 100mm×160mm
Weight:	Less than 300 grams
Operating Temp:	-40°C to +71°C as measured on the thermal conductive rail
Internal Die temperature not to exceed 105°C	
Storage Temp:	-55°C to +105°C
Relative Humidity:	5% to 95% non-condensing
Shock:	40G, 11ms half-sine shock pulses in 3-axis
Vibration:	0.1G ² /Hz, 5-2,000Hz, 1hr/axis
Explosion Safety:	no voltages above 12V DC

