

XMC-G745

XMC Module with NVIDIA GeForce GT 745M GPU

NEW



Features

- NVIDIA GeForce GT 745M GPU (Kepler refresh)
- 384 CUDA cores for maximum processing power
- 2GB dual channel GDDR5 soldered memory
- XMC site PCIe x8 Gen3 on P15
- Four DVI-D and one VGA with 3 independent displays (VGA supported on conduction cooled version only)



Specifications

Processor & System

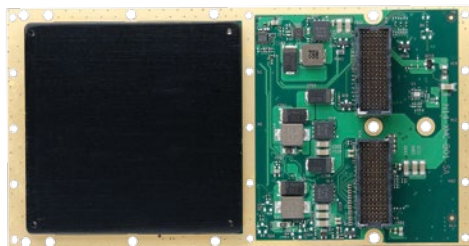
GPU	NVIDIA GeForce GT 745M NVIDIA CUDA Technology (compute capability 3.0), 384 cores NVIDIA H.264 video encoding NVIDIA PureVideo hardware decoding High-Bandwidth Digital Content Protection (HDCP) support Supports OpenGL 4.4, OpenCL 1.2, DirectX 11.1
Memory	Dual channel GDDR5 SDRAM with ECC, 2GB 128-bit memory interface
Display	Digital display resolution up to 1920 x 1200 Analog display resolution up to 2048 x 1536 Three independent displays supported
VITA Specifications	VITA 42.0 XMC: Switched Mezzanine Card Base Specification VITA 42.3 XMC: XMC PCI Express Protocol Layer VITA 46.9 VPX: PMC/XMC Rear I/O Fabric Signal Mapping on 3U and 6U VPX Modules

Connectivity

XMC Site	PCIe x8 Gen3 on P15
XMC I/O	Four single-link DVI-D and one VGA on P16 (conduction cooled version only)
Front Panel	Four single-link DVI to front panel extra space via VHDCI connector (air cooled version only)

Operating System

OS	Microsoft Windows 7 Microsoft Windows 8.1 Red Hat Enterprise Linux (Please contact ADLINK for other OS support)
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XMC-G745-R2 (conduction cooled)

Mechanical & Environmental

Form Factor	Standard XMC Form Factor 143.75 x 74mm (conduction cooled version) 149 x 74mm (air cooled version)
Operating Temperature	-40°C to +85°C (conduction cooled version, with GPU throttling) 0°C to +55°C (air cooled version)
Rel. Humidity	95% non-condensing
Shock	Sawtooth 40G, 11ms, each axis, operating (conduction cooled version) 20g peak, 11ms (air cooled version)
Vibration	15Hz-2KHz, 12Grms, random, each axis, operating (conduction cooled version) Random: 0.002g2/Hz from 10 to 2000Hz; Sine: 2G, 5 to 500Hz (air cooled version)
Power	Power input 5V, 3.3V

Safety & EMI

Certifications	CE/ FCC Class A
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Ordering Information

Model Number	Description/Configuration
XMC GPU Module	
XMC-G745-R2	XMC NVIDIA GT 745M GPU Module, conduction cooled
XMC-G745-A1	XMC NVIDIA GT 745M GPU Module, air cooled

Block Diagram

