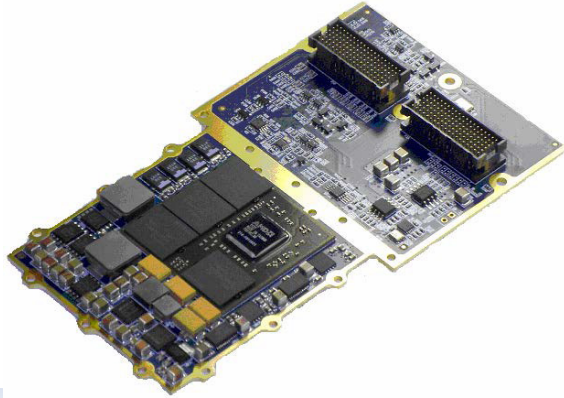# XMC/PMC Based Graphics Card

Express/Peripheral Component Interconnect Mezzanine Card
(Graphics Card)

Key Features

- 6 independent digital outputs
- 576 GFLOPS GPGPU
- Rugged air-cooled heat plate design
- 1GB GDDR5 memory, 800MHz 128-bit
- Standard XMC form factor (VITA 42.3)
- OpenCL™ compliant:
  • AMD™ Stream Computing
  • OpenCL™ 1.2
  • DirectCompute 11
- DirectX® 11; OpenGL® 4.1
- Shader Model 5.0
- Shader Processing Units: 480

XMC/PMC – SM768 Graphics is designed to fit any VME, VPX or CompactPCI Single-Board Computer in the market. SM768 is high performance, low power 4K graphics processor which supports UHD resolution (3840×2160) on HDMI and PCI-Express host interfaces.

Cornet's XMC Graphics Card fully compatible with VPX-REDI (ANSI/VITA 46.9) standards and supports up to six independent digital video outputs, and one RGBHV analog output. The six digital outputs are comprised of four DisplayPort™ 1.2 (1-lane) outputs, and your choice of two DisplayPort 1.1a (4-lane), two single-link DVI, one dual-link DVI, or one single- or dual-link LVDS (18bpp or 24bpp) output.

When used as a GPGPU module, the XMC Graphics Card provides 576 GFLOPs of processing power, using the industry standard OpenCL™ 1.2 GPGPU programming language.

XMC Graphics Card provides front I/O rugged air- cooled. The Operating System for XMC Graphics Card supports Windows and Linux.

CORNET TECHNOLOGY

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Design

Processor: AMD™ E6760 GPU 600MHz

Display: AMD™ Eyefinity™ Display

PCI : PCIe 2.1 x8 bus interface

Memory: 1GB GDDR5 memory
800MHz 128-bit

Drivers: Windows and Linux 32and 64-bit

Form Factor: XMC VITA 42.0 74mm×149mm

Environment:

Storage Temp. -40 °C to +125 °C
Operating Temp: -10 °C to +55 °C
Relative Humidity: 5 to 95% non-condensing

Power:

Operating voltage: +3.3V and VPWR
(configurable +5V or +12V DC)
Power Cons: 25-45 W adjustible

Video Output Options: DisplayPort™ 1.1a, 2.0
HDMI 1.4a
TMDS
LVDS
VGA

Motion Video Decode:
UVD3 for H.264, VC-1, MPEG-2
MPEG-4 part 2 decoding

Product is Subject to U.S. Export Laws

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