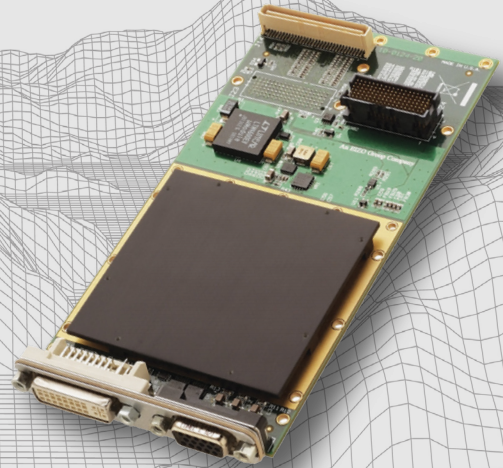


Rugged XMC graphics & video capture cards based on the AMD Radeon E4690 GPU with multiple video output formats.



RUGGED XMC

Graphics Card with two
multi-function video outputs

HIGH-PERFORMANCE GRAPHICS

AMD Radeon™ E4690 GPU
512 MB GDDR3 graphics
memory

PRODUCT CUSTOMIZATION

Multiple product variants
with customizable I/O
configurations

XMC Graphics Card with Two Multi-Function Video Outputs

The Condor 2000 XMC series is a set of powerful rugged XMC mezzanine graphics processing cards targeted for the defense and aerospace markets. Based on the E4690 GPU from AMD, the Condor 2000 XMC graphics cards are built with superior graphics features and includes hardware acceleration of H.264 and VC-1 HD video as well as MPEG-2, enabling multiple HD video streams while freeing the CPU for other tasks.

The Condor 2000 XMC series includes 512 MB GDDR3 memory using the AMD Radeon E4690 GPU while supporting OpenGL 3.0 and DirectX 10.1. With multiple product variants available to meet the various video output needs of the defense and aerospace markets, these products are also offered in air cooled and conduction cooled form factors, front IO or rear IO versions, and can be used in VME, cPCI, AdvancedTCA, VPX and other single board computers (SBCs) using an XMC mezzanine card interface. The card has a PCI Express x8 interface, consistent with the majority of the SBCs that support this bus width. The series can support a wide variety of video formats (DVI, RGB, LVDS, and NTSC/PAL/SECAM).



MIL-STD 810
Shock



MIL-STD 810
Temperature



MIL-STD 810
Vibration



SWaP

Condor 2000 XMC Series Specifications

Interface

XMC 1.0 or XMC 2.0
8 Lane PCIe 2.0

Graphics Processor

AMD Radeon E4690 GPU
Supporting OpenGL 3.0, DirectX 10.1

Graphics Memory

512 GB GDDR3
128-bit Memory Interface
22.4 GB/s Memory Bandwidth

GPGPU Capabilities

320 Shader Processors
Up to 384 GFLOPs FP32 Single Floating Point Performance
H.264, VC-1, MPEG-2 Video Decode
Shader Model 4.0

Video Outputs

Two Multi-Function Video Outputs
See below Product List table for options

Software & Platform Support

Windows or Linux on x86
RTOS Support - VxWorks (others as needed)

Operating Temperature (MIL-STD-810)

-40°C to 85°C (Rugged Conduction Cooled)
-40° to 70°C (Rugged Air Cooled)

Power Consumption

10 - 25 W

Vibration (MIL-STD-810)

0.1 g²/Hz

Shock (MIL-STD-810)

40 g

Humidity (MIL-STD-810)

95% Without Condensation

Condor 2000 XMC Series Product List

		Product Name		
		Condor 2000x (Front and Rear PMC Video. VME Style Pin-Out. Air Cooled and Conduction Cooled)	Condor 2001x (Rear XMC Video. VPX Style Pin-Out. Conduction Cooled)	Condor 2002x (Rear XMC Video. VPX Style Pin-Out. Conduction Cooled)
Output Type	VGA	2	NA	2
	DVI	2	2	1
	RS-343	NA	2 (fo) (nre)	2 (fo) (nre)
	RS-170 (3 wire)	NA	2 (fo) (nre)	2 (fo) (nre)
	STANAG 3350 A/B/C	NA	2 (fo) (nre)	2 (fo) (nre)
	CVBS (NTSC / PAL / RS-170 1 wire)	1 (fo)	NA	NA

(fo) = Factory option

(nre) = Non-recurring engineering fee may be required

NA = Not Available

Note: Maximum two video outputs at a time.