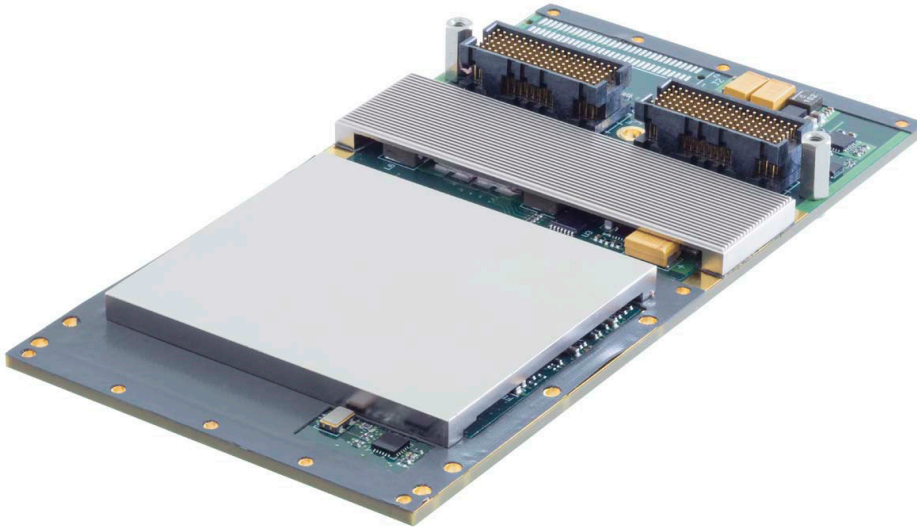




Condor 4000 XMC



AMD® E8860 Based XMC Graphics & GPGPU Card with Six Multi-Function Video Outputs

The Condor 4000 represents a series of XMC graphics cards, offering a range of rugged XMC form factor graphics/video/GPGPU cards for use in the embedded market. Based on AMD's Radeon™ E8860 GPU, the Condor 4000 XMC Series products offer superior computing and GPGPU performance. Delivering 768/48 GFLOPs of peak single/double precision floating point performance, the Condor 4000 XMC Series graphics processors are ideal for GPGPU applications such as radar, UAV, C5ISR, and video surveillance/analysis. All Condor 4000 XMC products have built-in video decoders to enable dual HD decoding of H.264, VC-1, MPEG4 and MPEG2 compressed video streams.

The product is offered in various ruggedized levels and has digital (DVI/DisplayPort) and analog (VGA) video outputs available from the front panel or rear XMC (Pn6) or PMC (Pn4) I/O connectors. With multiple product variants available to meet the various needs of the defense and aerospace markets, these products are offered in air cooled and conduction cooled form factors and can be used in VME, VPX, cPCI or rugged PCIe systems. There are up to six multi-format video outputs are supported on either Front or Rear, depending upon the version of the product.

Key features of this product:

- AMD® Embedded Radeon™ E8860 GPU
- Video Outputs: Six Multi-Function Video Outputs
See Product List Table on Back for Variants
- Front I/O, Rear PMC & Rear XMC I/O Variants
- 2 GB GDDR5 Graphics Memory
- 640 Shader Processors
- 128-bit Memory Interface
- 72 GB/s Memory Bandwidth
- Up to 768 GFLOPs FP32 Compute Performance
- H.264 Hardware Decoder (UVD 4.0)
- H.264 Hardware Encoder (VCE 1.0)
- MIL-STD-810
- Conduction Cooled & Air Cooled
- Thermally Efficient Heatsink Technology

Fully Ruggedized



Condor 4000 XMC Specifications

Graphics Processor	AMD® Embedded Radeon™ E8860 GPU supporting OpenGL 4.2, DirectX 11.1 and Shader 5.0
Interface	XMC 1.0 or XMC 2.0 8 Lane PCIe 3.0
Graphics Memory	2 GB GDDR5 128-bit Memory Interface 72 GB/s Memory Bandwidth
Video Outputs	Six Multi-Function Video Outputs. (See below Product List table for options)
Video Inputs	Two 3G-SDI, HD-SDI or SD-SDI Rear Pn6 XMC I/O. VITA 46.9 x12d+x8d+24s.
GPGPU Capabilities	640 Shader Processors Up to 768 GFLOPs FP32 Single Floating Point Performance OpenCL 1.2, DirectCompute 11 H.264 Hardware Decoder UVD 4.0 (Unified Video Decoder) H.264 Hardware Encoder VCE 1.0 (Video Codec Engine)
Power Consumption	17 - 45 W
Operating Temperature (MIL-STD-810)	-40° to 70°C (Rugged Air Cooled) -40°C to 85°C (Rugged Conduction Cooled)
Vibration (MIL-STD-810)	0.1 g ² /Hz
Shock (MIL-STD-810)	40 g
Humidity (MIL-STD-810)	95% Without Condensation
Software & Platform Support	Windows or Linux on x86 RTOS Support - VxWorks (others as needed) VME, cPCI, 3U VPX & PCIe (with adapter board)

Condor 4000 XMC Product List

		Product Name				
		Condor 4000xF (Front Video + Rear PMC. VME Style Pin-Out. Air Cooled)	Condor 4000xF-DL (Front Video. Air Cooled)	Condor 4000xFCS (Front Video + Rear PMC. VME Style Pin-Out. Pin Compatible w/ Condor 2000x. Air Cooled)	Condor 4000X (Rear XMC Video. VPX x12d+x8d+24s. Conduction Cooled)	Condor 4000X-6DP (Rear XMC Video. VPX x12d+x8d+24s. Conduction Cooled)
Output Type	VGA	1 [front] or 1 [rear]	1 [front]	1 [front] or 1 [rear]	1 [rear]	NA
	DVI	1 Single-Link [front] or 2 Single-Link / 1 Dual-Link [rear]	1 Dual-Link [front]	1 Dual-Link [front] or 2 Single-Link [rear]	2 Dual-Link [rear]	NA
	DisplayPort	1 [front] or 4 [rear] (Can be converted to VGA or Single-Link DVI using an off the shelf adapter or EIZO's Adapt product line)	1 [front] (Can be converted to VGA or Single-Link DVI using an off the shelf adapter or EIZO's Adapt product line)	1 [front] (Can be converted to VGA or Single-Link DVI using an off the shelf adapter or EIZO's Adapt product line)	2 [rear] (Can be converted to VGA or Single-Link DVI using an off the shelf adapter or EIZO's Adapt product line)	6 [rear] (Can be converted to VGA or Single-Link DVI using an off the shelf adapter or EIZO's Adapt product line)

[front] = Outputs off the front panel
[rear] = Outputs off the rear connector
NA = Not available



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