



Condor 3000 Series

End of Life product



Rugged XMC Graphics & GPGPU card based on AMD Radeon E6760

Condor 3000 Series cards are leading edge XMC form factor graphics/video cards for use in applications that require very high-end graphics and computation. Based on AMD's Radeon E6760 GPU, the Condor 3000 Series offers exceptional performance with immersive desktop-level 3D graphics and outstanding multimedia features.

The series has many variants and is offered in various levels of ruggedization. Air Cooled versions have Digital (DVI, DisplayPort, HD/SD-SDI) and Analog (VGA) video outputs available from the front panel (face plate) of the card. Rear PMC or XMC I/O offers Digital (DVI, LVDS, DisplayPort) and Analog (VGA) video outputs. A Rear PMC I/O Conduction Cooled variant compatible with VME/cPCI and a Rear XMC I/O variant compatible with VPX (x12d+x8d) are also available and offer various types of video outputs.

Delivering up to 576 GFLOPs of peak single precision floating point performance, the Condor 3000 graphics processor is ideal for general purpose graphics processing unit (GPGPU) applications such as radar and video surveillance/analysis. Supported by the industry standard OpenCL™ programming language, GPGPU application software development is accelerated with the AMD Stream Software Development Kit (SDK). The SDK includes developer tools such as compiler, debugger, code profiler and math libraries.

Key features of this product:

- Rugged XMC Form Factor
- AMD Radeon E6760 GPU
- 1 GB frame buffer
- OpenGL 4.1 / DirectX 11
- OpenCL (GPGPU computing)
- Front or Rear PMC/ XMC Outputs Available (DVI, LVDS, VGA, DisplayPort, HD/SD-SDI)
- Up to 1920 x 1200 resolution with Single-Link
- Up to 2560 x 1600 resolution with Dual-Link

Fully Ruggedized



Condor 3000 XMC Series Specifications

Graphics Processor	AMD Radeon E6760 GPU supporting OpenGL 4.1 and DirectX 11
Interface	XMC form factor, 8 Lane, PCI Express 2.1
Graphics Memory	1GB GDDR5 memory, 128-bit wide
Maximum Video Resolution	1920 x 1200 for Single-Link DVI / VGA Configuration and 2560 x 1600 for Dual-Link DVI 1080p30 for HD/SD-SDI
GPGPU Capabilities	OpenCL 1.1, DirectCompute 11 576 GFLOPS 480 shaders
Power Consumption	43 Watts (Can be configured to be as low as 17W)
Operating Temperature (MIL-STD-810)	-40°C to 70°C (Rugged Air Cooled) -40°C to 85°C (Rugged Conduction Cooled) 0°C to 55°C (Standard)
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 RTOS (As needed)

Condor 3000 Product List

		PRODUCT NAME				
		Condor 3000xF (Front Video + Rear PMC DVI-I and DisplayPort Air Cooled)	Condor 3000x (Rear PMC Video VME Style Pin-Out Air Cooled)	Condor 3000x-cc PMC I/O (Rear PMC Video VME Style Pin-Out Conduction Cooled)	Condor 3000x-cc XMC I/O (Rear XMC Video VPX Style Pin-Out x12d + x8d Conduction Cooled)	Condor 3001xF (Front Video Two HD-BNC + DisplayPort Air Cooled)
O U T P U T T Y P E	VGA	1 or 2 (adapter) [front] OR 1 or 4 (adapter) [rear]	1	1	1	1 (adapter)
	DVI	1 or 2 (adapter) [front] OR 2 Single-Link / 1 Dual-Link [rear] 4 DVI possible with (adapter)	2 Single-Link / 1 Dual-Link 4 DVI possible with (adapter)	2 Single-Link / 1 Dual-Link	2	1 (adapter)
	LVDS	1 (fo) (nre) [rear]	1 (fo) (nre)	1 (fo) (nre)	1 (fo) (nre)	NA
	DisplayPort	1 [front] OR 4 [rear]	4	4	2 (fo)	1
	HD/SD-SDI	NA	NA	NA	NA	2



Website: www.eizorugged.com

Email: condor@eizo.com

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