



# Condor 3000 Series

## High Performance XMC graphics with GPGPU capability

### Features

- 1 GB frame buffer
- XMC form factor
- 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 configuration and 2560 x 1600 with Dual-Link
- Long term product availability
- Comprehensive customer care
- Ideal for rugged applications

### Markets

- Military
- Avionics
- Industrial
- Embedded Systems

### Platforms

- Windows/Linux based Single Board Computers
- VME, cPCI, VPX
- Other Platforms as required

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.

The product comes with Tech Source's commitment of availability for up to 7 years. This comes with the legendary support of our seasoned team members, who may offer immediate assistance to troubleshoot and resolve any technical challenges.

While Windows or Linux drivers are available by default, other real time operating systems (RTOS) such as VxWorks, Integrity and LynxOS may be supported as per customer requirements.

Tech Source has provided graphics solutions for over 25 years and has always met customer needs with long term commitment and support.

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## Condor 3000 Series Variants

		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

(fo) = Factory Option, (nre) = Non-recurring Engineering fee may be required, (adapter) = Uses off the shelf adapter, [front] = Outputs off the front panel, [rear] = Outputs off the rear connector, NA = Not available

## Condor 3000 Specifications

<b>Graphics Processor</b>	AMD Radeon E6760 GPU supporting OpenGL 4.1 and DirectX 11
<b>Interface</b>	XMC form factor, 8 Lane, PCI Express 2.1
<b>Graphics Memory</b>	1GB GDDR5 memory, 128-bit wide
<b>Maximum Video Resolution</b>	1920 x 1200 for Single-Link DVI / VGA Configuration and 2560 x 1600 for Dual-Link DVI 1080p30 for HD/SD-SDI
<b>Floating Point Performance (single precision, peak)</b>	576 GFLOPS 480 shaders
<b>OpenCL / GPGPU computing</b>	OpenCL 1.1, DirectCompute 11
<b>Video Outputs</b>	See Above Variants Table
<b>Power Rating</b>	43 Watts (Can be configured to be as low as 17W)
<b>Operating Temperature (MIL-STD-810)</b>	0°C to 55°C (Standard)
	-40°C to 70°C (Rugged Air Cooled)
	-40°C to 85°C (Rugged Conduction Cooled)
<b>Humidity</b>	95% without condensation
<b>Vibration / Shock</b>	Compliant with MIL-STD-810
<b>Software/Platform Support</b>	Windows or Linux
	RTOS (As needed)
	x86, PowerPC

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