



Condor 3000x

High Performance XMC graphics with GPGPU capability

Condor 3000x Features

- 1 GB frame buffer
- XMC form factor
- 2D/3D graphics compatibility
- OpenGL 4.1/DirectX 11
- OpenCL (GPGPU computing)
- Front/Rear IO (DVI, VGA, Dual Mode Display port)
- Up to 2560 x 1600 resolution
- Long term product availability
- Comprehensive customer care
- Ideal for embedded applications

Markets

- Military
- Avionics
- Industrial
- Embedded Systems

Platforms

- Windows/Linux based Single Board Computers
- VME, ATCA, CPCI
- Other Platforms, as required

Condor 3000x is a leading edge XMC form factor graphics/video card for use in applications that require very high-end graphics and computation. Based on AMD's Radeon 6760 GPU, the Condor 3000 product offers exceptional performance with immersive desktop-level 3D graphics and outstanding multimedia features. It's built-in video decoder enables 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/display port) and analog (VGA) video outputs available from the front (face plate) of the card or through the rear Pn4/P16 connectors. Conduction cooled versions are available.

Delivering 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 ultrasound, radar and video surveillance. 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 along with the legendary support from Tech Source's support team, where an experienced support team is available for immediate assistance to troubleshoot and resolve any issues.

While Windows 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 22 years and has always met customer needs—long term commitment and support.

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Condor 3000x Technical Specifications

Condor 3000x

XMC form factor video graphics adapter, up to 2560x1600 or 2048x2048 resolution, 1 GB frame buffer, multiple video outputs in front and rear.

Specifications

| | |
|---|---|
| Graphics Processor | Radeon 6760 GPU supporting OpenGL 4.1 and DirectX 11 |
| Interface | XMC form factor, 8 Lane, PCI Express 2.1 |
| Graphics Memory | 128-bit wide, 1GB GDDR5 memory |
| Maximum Video Resolution | 2560 x 1600 Dual Link DVI and 2048x1536 Component |
| Floating Point Performance (single precision, peak) | 576 GFLOPS, 480 shaders |
| Shader Model | 5.0 |
| OpenCL/GPGPU computing | OpenCL 1.1, DirectCompute 11 |
| Unified Video Decoder (UVD) | UVD3 for H.264, VC-1, MPEG-2, MPEG-4 part 2 decode |
| Video Outputs | Dual Link DVI, VGA and Dual Mode Display Port (2 connectors on Front—DVI-I and Display Port) |
| | Dual Link DVI-D, VGA and Dual Mode Display Port (Rear) Note: Dual Link DVI can be converted to 2 single link DVI |
| Power Rating | 40 Watts (Can be configured to be as low as 20W) |
| Operating Temperature | 0°C to 55°C (Commercial) |
| | -20°C to 70°C (Rugged) |
| | -40°C to 85°C (TBD) |
| Humidity | 90% without condensation |
| Software/Platform Support | Windows or Linux |
| | RTOS (As needed) |
| | X86, PowerPC |



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