

Accelerate your embedded system environment with the unrivaled graphics performance of the Condor 2000x. Designed to meet demands of defense, industry, command and control, training and simulation, and radar display applications, the Condor 2000x features top-of-the-line graphics performance, multiple outputs, and an industry-leading product life of at least seven years.

- Excellent graphics performance
- Dual display support (front and rear)
- DVI, RGB, NTSC, PAL, SECAM and OpenLDI support
- Rear output on Pn4 or P16, or both
- Multi-OS support (including VxWorks)



Form Factor Compatibility

Take command over a wide range of mission-critical applications with the flexibility and integrated system compatibility of Condor. With the form factors and features required in defense, industry, and avionics, Condor 2000x delivers high performance graphics solutions in these embedded system environments. Condor 2000x is designed for use with VME, AdvancedTCA, 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.

High Performance Graphics

To meet the specific graphics requirements of defense, command and control, training and simulation, and radar display, the Condor 2000x is based on AMD's state-of-the-art E4690 GPU that supports 2D and

3D graphics with both OpenGL 3.0 and DirectX 10. Boasting the latest graphics features, the GPU includes hardware acceleration of H.264 and VC-1 HD video as well as MPEG-2. This hardware acceleration enables multiple HD video streams without sacrificing CPU performance dedicated to other tasks.



Multiple Video Outputs

The Condor 2000x is equipped with both front and rear video outputs and can support a wide variety of formats (DVI, RGB, OpenLDI, and NTSC/PAL/SECAM). These support resolutions up to 2048 × 2048 and 2560 × 2048 with digital signals, or resolutions up to 2048 × 1536 with analog signals.

Condor™ 2000x

High Performance Graphics for Embedded System Applications

Standard and Customized Graphics Solutions

In military and industrial embedded systems, existing COTS products often do not meet all of the requirements of a specific program. This forces system integrators to spend valuable engineering resources adapting a graphics solution to meet customer-specific requirements. Tech Source's core competency is computer graphics hardware design. Condor products can be tailored to meet any customer video output requirement. Condor 2000x currently supports Windows or Linux on Intel/AMD platform. PowerPC platform support as well as RTOS (real time operating system) drivers can be made upon request.

Long Product Availability

Tech Source guarantees the Condor 2000x will have a production life of at least seven years and optional support for up to ten years. This is made possible by the close relationship cultivated between Tech Source and AMD's embedded graphics group who has offered Tech Source an extended GPU product life of five years. For system integrators, this means significant savings on development costs by reducing the frequency of configuration re-testing that is necessary when replacing old cards with new ones.



Long-Term Customer Care

Just as important as the initial hardware investment is the promise and delivery of personalized attention in long-term, high-quality, customer care. Tech Source is unrivaled in after-sales support offering full customer care solutions in technical troubleshooting, general queries, software updates, and service.

About Tech Source

Tech Source, Inc. has provided computer graphics hardware solutions to the ATC and defense markets for over 22 years. Tech Source is a subsidiary of Eizo Nanao Corporation, a leading global manufacturer of high-end display monitors. The companies offer combined expertise, cutting-edge graphics solutions, and complementary product lines for ATC, defense, and other mission-critical markets.

Specifications

Frame Buffer Size	512 MB GDDR3
Graphics Processor	AMD E4690 supporting OpenGL 3.0/DirectX 10
Graphics Mode	24-bit
Interface	XMC, PCI Express x8
Video Connectors	Front: DVI-I (dual link) and RGB Rear: Pn4 connector: dual link DVI x 2, single link DVI x 2, RGB x 2 Rear: P16 connector (optional): dual link DVI x 2, single link DVI x 2, RGB x 2, OpenLDI x 1
Maximum Supported Resolutions	Digital: 2048 x 2048 or 2560 x 1600 Analog: 2048 x 1536
Temperature Rating	0° to 55°C (benign) Rugged, semi-rugged and conduction cooled versions are available.
Humidity Rating	90% (non-condensing)
Power Rating	Less than 25 W (configurable as low as 10 W)
Dimensions (L x W)	74 mm x 149 mm
Platforms Supported	• x86 (Intel or AMD based) Support for other platforms such as PowerPC is available pending customer specifications.
Software Environments Supported	• Windows • Linux Support for other real-time operating systems such as VxWorks, Integrity, and LynxOS is available pending customer specifications.
Hardware Warranty	1 year

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