Tech Source
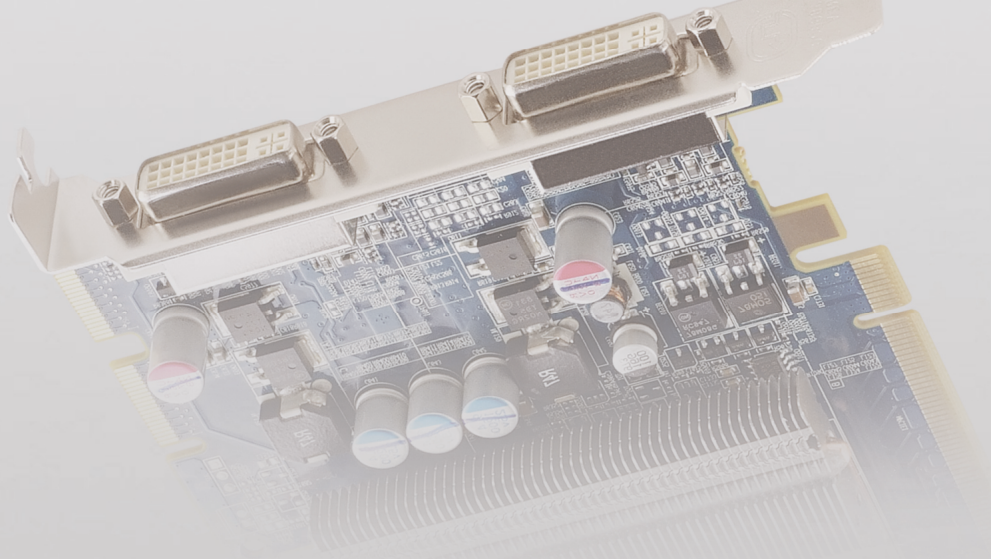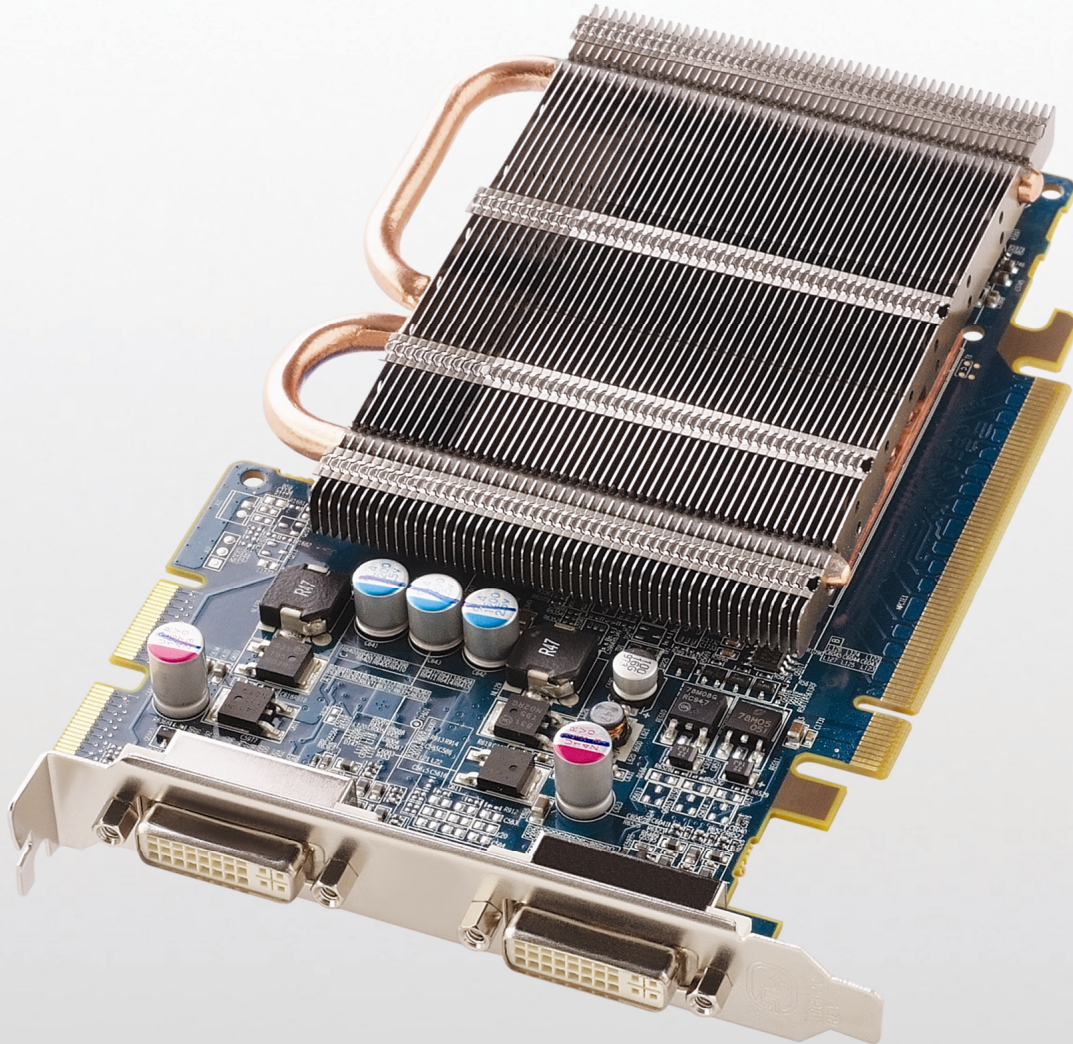
An EIZO Group Company

High-Performance Graphics Board
for Embedded Systems Applications

Condor™ 2000 PCIe

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The Tech Source Condor 2000 PCIe is a high performance graphics/video board based on the AMD E4690 that supports low or high resolution digital and analog monitors. It is designed for use in markets and programs that have very long deployment cycles. The product offers long product life cycle and long-term support. With 320 built-in shader processors, it can also be used for GPGPU computing. The card uses specially designed high-tech passive cooling that eliminates the need for a fan, thereby increasing life expectancy.

Multiple Resolution Support

The Condor 2000 PCIe has two DVI-I outputs for simultaneous display on digital and/or analog monitors. It can drive digital monitors with resolutions up to 2560 x 1600 and analog monitors with resolutions up to 2048 × 1536. Drivers are available for Windows XP, Windows 7, Windows Vista and Linux.

OpenGL 3.3 Support

The Condor 2000 PCIe supports OpenGL 3.3 and has 320 shader processors that allow for both fast OpenGL performance and solid GPGPU computing.

Maximum Performance

The Condor 2000 PCIe is based on the AMD E4690 and operates in a 16 lane v2.0 compatible PCI Express slot. With 512 MB of GDDR3 (700MHz) on-board memory, the Condor 2000 PCIe offers excellent drawing performance that is comparable to other premier graphics boards on the market. The powerful on-board GPU has built-in capability for H.264, VC-1 and MPEG-2 decoding with superior video playback fidelity and minimum CPU utilization.

Long-Term Availability

Like other Condor series graphics boards, the Condor 2000 PCIe will be available for at least five years from the date of release (longer with forecasts) and supported for 10 or more years. The Condor 2000 PCIe's long life avoids the re-testing required by the customer every time a new graphics card is introduced in their configuration, thereby reducing the total cost of ownership.

Passive Cooling

The Condor 2000 PCIe uses specially designed high-tech passive cooling that eliminates the need for a fan, thereby increasing life expectancy.

Ruggedization

Extended temperature as identified in the spec below is standard. The product is available at several ruggedization (shock / vibration) levels. Optional conformal coating for the board is also available. For more information, email embeddedgraphics@techsource.com.

About Tech Source

Tech Source, Inc. has provided computer graphics hardware solutions to wide markets such as ATC and defense for over 24 years. Tech Source is a subsidiary of Eizo Nanao Corporation, a leading global manufacturer of high-end displays. The companies offer combined expertise, cutting-edge graphics solutions, and complementary product lines for ATC, defense, and other mission-critical markets.

Specifications

Graphics Processor	Radeon E4690 supporting OpenGL 3.3 and DirectX 10.1
Interface	PCI Express v2.0 compatible (x16)
Graphics Memory	128-bit, 512MB, GDDR3
Shader Processors	320
Core/Memory Clock	Up to 600Mhz core and 700Mhz memory (software configurable)
Maximum supported resolutions	Digital: 2560 x 1600 (dual-link) 1920 x 1200 (single-link) Analog: 2048 x 1536
Video Connectors	DVI-I x 2 (Single or Dual-Link DVI or VGA)
Thermal Sensor	Yes
Temperature Rating	Operating: -25°C to 70°C [1] Non-operating: -40°C to 85°C
Conformal Coating	Optional
Humidity Rating	10% to 90% (non-condensing)
Power Rating	Less than 40 watts
Dimensions (L x H x W)	17.5 cm x 1.9 cm x 11.1 cm (6.9" x 0.7" x 4.4")
Platforms	Linux (x86), Windows 7, Vista, and XP. Other RTOS (like VxWorks) support also available, at additional cost
Warranty	One year

[1] = Appropriate air flow across the card is required for higher temperatures

Rev 2

Tech Source, Inc.

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