



Condor 2100 XMC



Toll Free: 888-509-8455, Email: clientservice@integrys.com
www.integrys.com

AMD® E4690 Based XMC Graphics & Video Capture Card with Two Inputs/Outputs

The Condor 2100 is a series of XMC form factor graphics/video cards for embedded systems such as VPX, VME and CompactPCI. Based on the E4690 GPU from AMD, the Condor 2100 XMC Series products are built with superior graphics features and includes hardware acceleration of H.264 and VC-1 HD video as well as MPEG-2, enabling multiple HD video streams.

The Condor 2100 XMC Series products have multiple inputs and outputs (based on the product versions) and can support various video input/output formats including TV (NTSC, PAL, SECAM), DVI/HDMI, HD-SDI, SD-SDI, RS-170, RS-343, VGA, and STANAG 3350. The two input streams are displayed on either of the two outputs and can be positioned or sized (zoom/pan capability) under software control. Individual video captured frames are available to applications for processing and compression. All decoding, scaling, video combining and format conversions are done in the GPU with minimal CPU impact.

Key features of this product:

- AMD® Embedded Radeon™ E4690GPU
- Video Outputs: Two Multi-Function Outputs
See Product List Table on Back for Variants
- Video Outputs: Two Input Channels
See Product List Table on Back for Variants
- Front I/O, Rear PMC & Rear XMC I/O Variants
- 2 GB GDDR5 Graphics Memory
- 320 Shader Processors
- 128-bit Memory Interface
- 22.4 GB/s Memory Bandwidth
- Up to 384 GFLOPs FP32 Compute Performance
- H.264, VC-1, MPEG-2 Video Decode
- PCI Express 2.0 x8
- MIL-STD-810
- Conduction Cooled & Air Cooled

Fully Ruggedized



Condor 2100 XMC Specifications

| | |
|-------------------------------------|--|
| Graphics Processor | AMD® Embedded Radeon™ E4690 GPU supporting OpenGL 3.0 and DirectX 10.1 |
| Interface | XMC 1.0 or XMC 2.0 8 Lane PCIe 2.0 |
| Graphics Memory | 512 GB GDDR3 128-bit Memory Interface 22.4 GB/s Memory Bandwidth |
| Video Outputs | Two Multi-Function Video Outputs. (See below Product List table for options) |
| Video Inputs | Two Video Input Channels (See below Product List table for options) |
| GPGPU Capabilities | 320 Shader Processors Up to 384 GFLOPs FP32 Single Floating Point Performance Shader Model 4.0 H.264, VC-1, MPEG-2 Video Decode |
| Power Consumption | 15 - 30 W |
| Operating Temperature (MIL-STD-810) | -40° to 70°C (Rugged Air Cooled) -40°C to 85°C (Rugged Conduction Cooled) |
| 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 on x86 RTOS Support - VxWorks (others as needed) VME, cPCI, 3U VPX & PCIe (with adapter board) |

Condor 2100 XMC Product List

| | | Product Name | | | | |
|-------------|----------------------|---|--|---|--|---|
| | | Condor 2101xP (Rear PMC Video. VME Style Pin-Out. Air Cooled and Conduction Cooled) | Condor 2101xF (Front Video. Air Cooled) | Condor 2101xX (Rear XMC Video. VPX Style Pin-Out. Air Cooled and Conduction Cooled) | Condor 2104x (Rear PMC Video. VME Style Pin-Out. Air Cooled and Conduction Cooled) | Condor 2106xF (Front Video. Air Cooled) |
| Output Type | VGA | 2 | 1 (fo) | 2 | 2 | 1 (fo) |
| | DVI / HDMI | 2 | 2 (fo) | NA | 2 | 2 (fo) |
| | RS-343 | 2 | 2 (fo) | 2 | 2 (fo) (nre) | 2 (fo) |
| | RS-170 (3 wire) | 2 (nre) | 2 (fo) (nre) | 2 | 2 (fo) | 2 (fo) (nre) |
| | STANAG 3350 A/B/C | 2 (nre) | 2 (fo) (nre) | 2 | 2 (fo) | 2 (fo) (nre) |
| | TV / RS-170 (1 wire) | 1 (fo) | 1 (fo) | NA | 1 (fo) | 1 (fo) |
| Input Type | DisplayPort | NA | 2 (mini) (Can be converted to VGA or Single-Link DVI using an off the shelf adapter or EIZO's Adapt product line) | NA | NA | 2 (mini) (fo) (Can be converted to VGA or Single-Link DVI using an off the shelf adapter or EIZO's Adapt product line) |
| | VGA | 2 | 1 or 2 (pseudo) (fo) | NA | 1 | NA |
| | DVI / HDMI | NA | NA | NA | 1 | 2 (fo) |
| | RS-343 | 2 (fo) | 2 (fo) | 2 | 1 (fo) (nre) | NA |
| | RS-170 (3 wire) | 2 (fo) (nre) | 2 (fo) (nre) | 2 | 1 (fo) (nre) | NA |
| | STANAG 3350 A/B/C | 2 (fo) (nre) | 2 (fo) (nre) | 2 | 1 (fo) (nre) | NA |
| | TV / RS-170 (1 wire) | 2 | 2 | NA | 1 | NA |
| HD-SDI | NA | NA | NA | NA | 2 (fo) | |

(fo) = Factory option. (nre) = Non-recurring engineering fee may be required. (pseudo) = Shared DDC. Uses EIZO Rugged Solutions' cable (mini) = Mini DisplayPort. NA = Not Available. Note: Maximum two video inputs and two video outputs at a time.



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