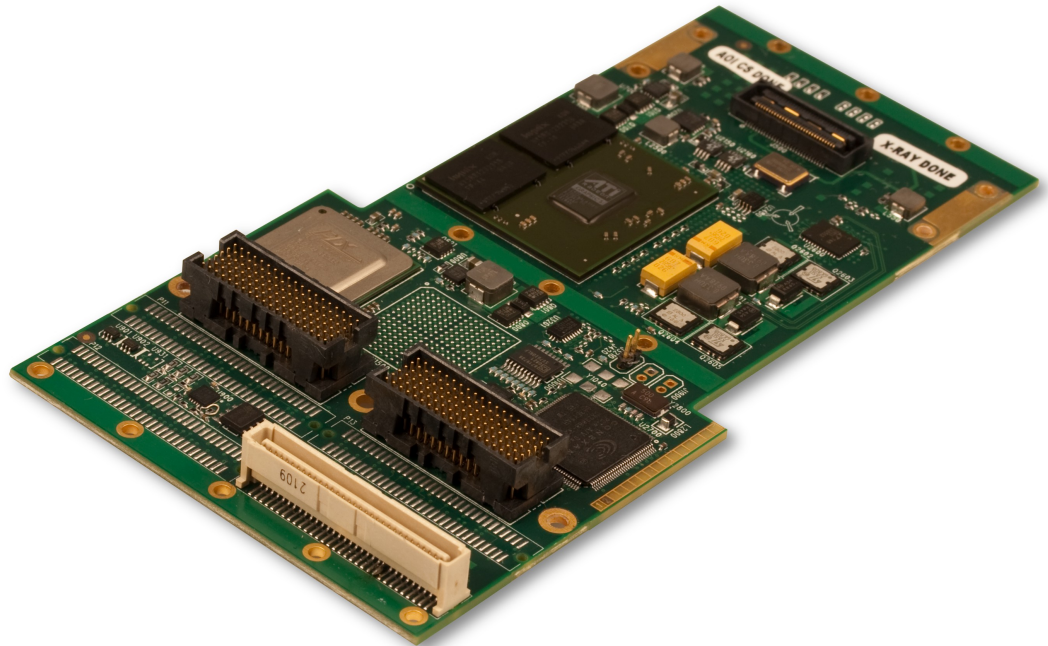


XPort4101

End of Life

AMD/ATI Radeon E2400 PMC/XMC Graphics Module

- ▶ AMD Radeon E2400 graphics processor
- ▶ Conduction or air cooling
- ▶ 128 MB GDDR3 memory
- ▶ x8 PCI-Express interface
- ▶ Optional PCI-X support
- ▶ Dual display support
- ▶ WUXGA 1920 x 1200 DVI resolution
- ▶ Component and composite video capture
- ▶ OpenGL 2.0 support
- ▶ Microsoft Windows driver support
- ▶ Linux 2.6 BSP



XPort4101

The XPort4101 is a ruggedized, high-performance graphics XMC/PMC module.

The XPort4101 provides an AMD Radeon E2400 graphics controller supporting two independent displays, each either VGA or DVI. Both digital graphics ports are supported on the P16 I/O connector. Analog (VGA) ports may be routed via the P14 connector. Two mini-HDMI connectors may optionally be installed in the front panel area for development use.

The AMD Radeon E2400 graphics controller combines high-performance 2D/3D video acceleration with an integrated GDDR3 SDRAM controller and a high-speed x8 PCI-Express communications link, while consuming a limited amount of power.

The Conexant CX23888 video capture device provides flexible video capture from sources through the P14 I/O connector and/or through an optional front panel connector for development use.

X-ES

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...Always Fast

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3225 Deming Way, Suite 120 • Middleton, WI 53562

Phone: 608.833.1155 • Fax: 608.827.6171

sales@xes-inc.com • <http://www.xes-inc.com>

Graphics Controller

- AMD Radeon E2400
- 128MB GDDR3 SDRAM
- 2D/3D graphics
- Dual independent displays

Video Capture

- Conexant CX23888
- Multi-format video capture
- Stereo audio capture

Back Panel I/O

- x8 PCI-Express interface out the P15 XMC connector
- Optional two DVI ports out P16
- Optional two VGA ports out P14
- Component/composite video input from P14

Front Panel I/O

- Optional two front-panel mini-HDMI ports
- Other configurations possible - contact X-ES

Software Support

- Microsoft Windows Driver
- Linux 2.6 BSP

Physical Characteristics

- XMC form factor
- 149 mm x 74 mm
- 10-mm stacking height
- Requires optional secondary side thermal interfaces

Environmental Requirements

Contact factory for appropriate board configuration based on environmental requirements.

- Supported ruggedization levels (see chart below): 1, 3, 5
- Conformal coating available as an ordering option

Power Requirements

- Maximum power consumption: 16 W (contact X-ES for lower power configurations)

Supported Ruggedization Level	Level 1	Level 3	Level 5
Cooling Method	Standard Air-Cooled	Rugged Air-Cooled	Conduction-Cooled
Operating Temperature	0 to +55°C ambient (300 LFM)	-40 to +70°C (600 LFM)	-40 to +85°C (board rail surface)
Storage Temperature	-40 to +85°C ambient	-55 to +105°C ambient	-55 to +105°C ambient
Vibration	0.002 g ² /Hz, 5 to 2000 Hz	0.04 g ² /Hz (maximum), 5 to 2000 Hz	0.1 g ² /Hz (maximum), 5 to 2000 Hz
Shock	20 g, 11 ms sawtooth	30 g, 11 ms sawtooth	40 g, 11 ms sawtooth
Humidity	0% to 95% non-condensing	0% to 95% non-condensing	0% to 95% non-condensing

