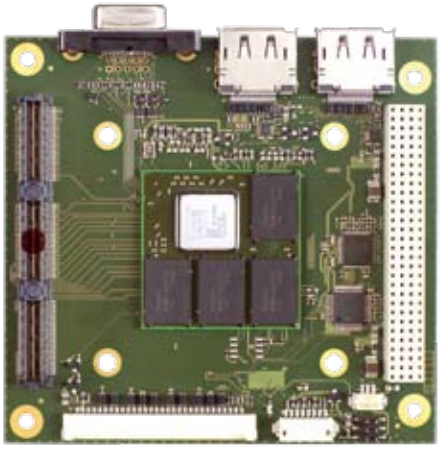
104X-E4690

PCI/104-Express Graphics Controller Board
ATI Radeon™ E4690 Controller



Features

- ATI Radeon™ E4690 with 512MByte GDDR3 700 MHz RAM (128Bit)
- 320 Shader Processing Units, stream Computing
- AVIVO Display Engine, full 30-bit Display Pipeline
- VGA, 2 x DisplayPort, Dual Channel LVDS
- CPU Interface PCIe 2.0 (x16)
- Low power consumption

Specifications

Processor	ATI Radeon™ E4690
RAM	512MByte GDDR3 700 MHz RAM (128Bit)
VGA	Yes
DisplayPort	2 ports
LVDS	Single/Dual-Channel 18/24-Bit LVDS 3.3V or 5V supply for panels
Backlight	5V or 12V control and supply
Sound	Integrated HD Audio Controller (Azalia) and Codec Supports linear PCM and Dolby® Digital (7.1) audio formats for Display-Port outputs.
PCI Express Bus	PCI/104-Express,
PCI Bus	PC/104 (for stacking only)
Power Supply	5 V ±5 % All necessary voltages are generated on-board.
Power Consumption	~25 watt max. (t.b.d.)
Operating temperature	0°C…+60°C (commercial) -20°C…+60°C (industrial))
Cooling	Heat pipe, see Fig. 1 below Active, see Fig. 2 below
MTBF	450.937 hours at 25 °C
Supported OS	Linux, Windows XP, Windows XP Embedded, Windows Vista, and Windows 7

Additional Features

- DirectX 10.1
- Shader Model 4.1
- OpenGL 3.x
- OpenCL (2H09)
- Motion Video Decode for H.264, VC-1, MPEG2
- HD Audio

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Block Diagram





Figure 1: Heat pipe cooling system using heat spreader



Figure 2: Fan cooled system

Ordering Information	
Ordering Number	Description
t12-0007-10	PCI/104-Express graphics module with ATI Radeon E4690

Note: t denotes the temperature range. Use 7 for commercial or 8 for industrial temperature range

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