

# EVS6000



## Features

- 3Dlabs' P9 Visual Processing Unit Technology
- Fully programmable through low level access to P9
- High-speed 128-bit memory interface
- 128MB DDR SDRAM frame and texture buffer
- Rich rendering functionality in silicon
- Graphics outputs:
  - RGB analog output resolution up to 2048x1536 @ 85Hz
  - DVI 1.0 digital output resolution up to 1600x1200 @ 60Hz
  - LVDS digital output resolution up to 1024x768, open LDI V0.95
  - PAL/NTSC/RS-170A color video output
- Dual video input with graphics overlay:
  - PAL/NTSC/RS-170A/STANAG 3350 color video input
  - RGB, up to 800x600
  - Graphics anti-aliasing to video
- Onboard PS/2 keyboard/mouse interface
- Conduction-cooled PMC version available
- Dual-head graphics output for RGB analog and DVI

## PMC graphics accelerator

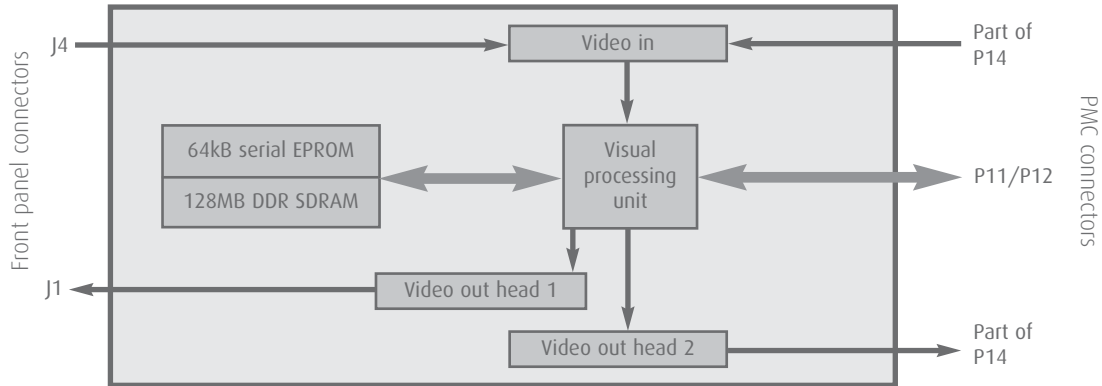
The EVS6000 is the next generation in Barco's family of rugged embedded graphics accelerators for 2D and 3D applications. The PMC form factor graphics accelerator is based on 3Dlabs' P9 Visual Processing Unit (VPU) and provides high-performance graphics rendering and optimum video display functionality. Low level programming access to the processor allows easy optimization and fine tuning to fit customer specific applications. With its broad video I/O capability, EVS6000 can perform in a wide variety of applications, including vehicle embedded computers, embedded training and simulation systems and cockpit displays.

Barco's EVS6000 is a PCI Mezzanine Card (PMC), available in a standard convection-cooled format or optional conduction cooled format for use in harsh environments. The EVS6000 mounts on industry standard VME or CPCI single board computers running VxWorks, Unix or Windows environments.

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# Board scheme



# Technical specifications

- **Form factor:** IEEE P1386.1 PMC or VITA 20-200X CCPMC
- **Weight:** 160g
- **Power consumption:** 10 W
- **Power variation:** 3V ± 5%, 5V ± 5%
- **Operating systems:** MS Windows®, VxWorks, UNIX®
- **3D:** OpenGL 1.3 with shader extensions  
DirectX 8.0 with vertex shader 1.1 and pixel shader 1.2

Parameter	Conditions	Air-cooled PMC	Conduction-cooled CCPMC
Min/Max Temperature	Operating	0 °C to 60 °C	-40 °C to 75 °C
	Storage	with 140 linear fpm air -40 °C to 100 °C	thermal interface -55 °C to 100 °C
Altitude	Operating	20,000 feet	50,000 feet for 2 hours
Humidity	Operating	5% to 90% RH non-condensing	5% to 95% RH including condensing for 240 hours
Shock	Operating	40g half-sine wave for 11 msec, all three axes	40g half-sine wave for 11 msec, all three axes
Vibration	Operating	5g for 1 hour/axis, all three axes	5g for 1 hour/axis, all three axes
EMI	Operating	MIL-STD-461E FCC Class A CE compliant	MIL-STD-461E FCC Class A CE compliant



In search of continuous improvement

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Technical specifications are subject to change without prior notice

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