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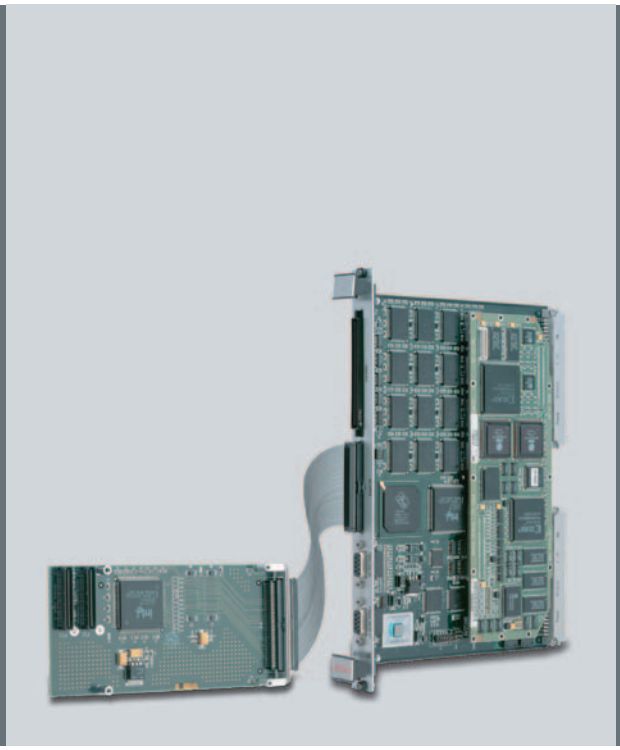
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AVS5100



High-performance VME graphics generator

Features
- 3Dlabs' P9 high-performance visual processing unit
- 64MB DDR SDRAM memory
- Output resolution up to 1600x1200
- 8, 12 or 24-bit color depth
- Video input:
  - NTSC, PAL, or S-Video color video
  - FLIR, radar, HDTV monochrome video
  - RS-343, RS-170 RGB video
- Open interface for radar data insertion
- 6U VME form factor
- High-performance PCI interface via PMC card

The AVS (Advanced Visualization System) family is a set of high-performance, high-resolution graphics generators for X Windows. Implemented as a single slot or dual slot 6U VME module, the AVS boards provide exceptional performance and features for real-time naval, command and control, and air traffic control applications.

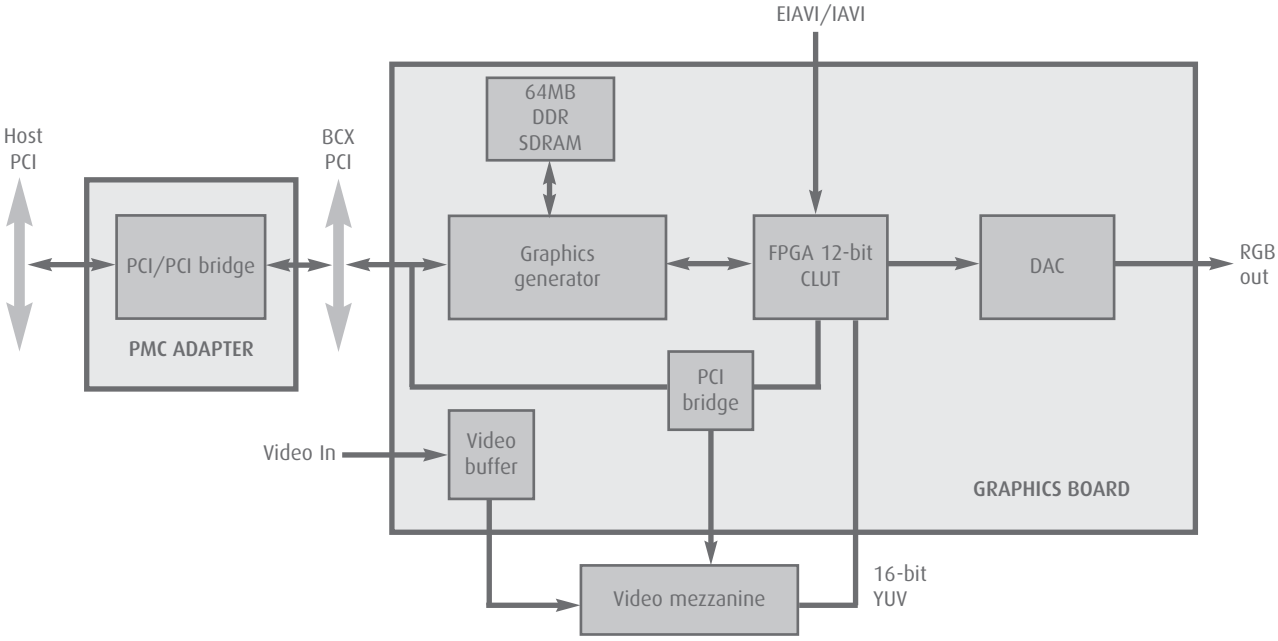
Barco's AVS5100 is based on PMC (PCI mezzanine) and 6U VME form factor standards. The board is connected to the host via a single-slot PMC adaptor that cables to the VME module. Internally, the AVS operates as a PCI device using the VME back plane for power and ground only.

The AVS5100 allows users to insert a variety of video sources, including NTSC, PAL, high-resolution monochrome and RGB, within the graphics display via an onboard digital video interface. Thanks to the extendable architecture of the AVS system, up to six video windows can be displayed simultaneously without degrading the host CPU or graphics performance. Video windows are controlled through either the X11R6 Xv extension or Barco's FlexiVision Application Program Interface.

BARCO

Visibly yours

Board scheme



Technical specifications

RESOLUTION

Display resolution:	640x480, 60 Hz 800x600, 60 Hz 1024x768, 60 Hz 1280x1024, 60 Hz 1280x1024, 72 Hz 1600x1200, 60 Hz

SYNC

Sync:	RGB, SOG RGBC, RGBHV

MEMORY

Memory:	64 MB DDR SRAM

GRAPHICS SOFTWARE

Operating systems and environments:	X Windows X11R6 HP-UX HPRT Solaris Windows® 2000/XP
Host interface:	PCI via host based PMC slot
VME interface:	Power and ground only

MECHANICAL

Form factor:	6U VME/PMC IEEE P1386.1

ENVIRONMENTAL

Operating temperature:	0°C to +55°C
Storage temperature:	-40°C to +70°C
Operating Humidity:	10% to 90% RH non-condensing
Storage Humidity:	5% to 95% RH at +45°C
EMI:	FCC-A MIL-STD 461 (when installed in appropriate chassis)

POWER

Power supply:	+5V, < 4A +12V, < 100mA -12V, < 100mA

ALTITUDE

Operating:	20,000 ft
Storage:	50,000 ft

MTBF

Environment:	Ground benign
Temperature:	25°C
Hours:	115,200

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Sigma

In search of continuous improvement

Ref. D-S-AVS-0105

Technical specifications are subject to change without prior notice

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