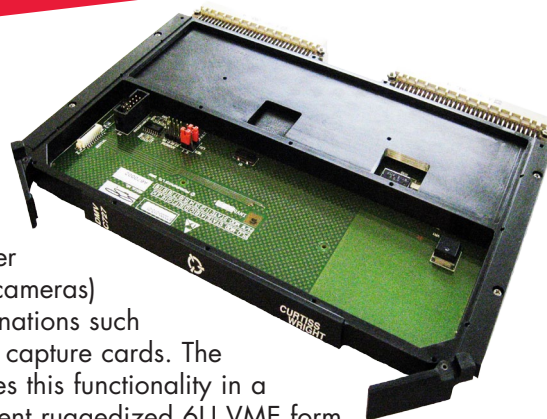




VxPOINT

Video Crosspoint Switch

- ◆ Unrestricted switching between eight video inputs and 32 video outputs
- ◆ Compatible with a wide range of standard video signals
- ◆ 150 MHz bandwidth
- ◆ Intelligent communications controller
- ◆ x3 RS-232 and x1 RS-422 serial channels for control and communication
- ◆ Color encoder option
- ◆ Available in air-cooled (ACO) and conduction-cooled (CC200) versions



Many applications need video to be routed from a number of sources (such as cameras) to a number of destinations such as displays or video capture cards. The VxPoint card provides this functionality in a flexible and convenient ruggedized 6U VME form factor. Each VxPoint accepts up to eight standard video signals and routes these to any one or more of 32 outputs. Multiple VxPoint cards can be used in parallel (to switch RGB or S-Video) or cascaded to create higher-density video switching matrices.

A wide range of video formats can be accommodated including composite NTSC or PAL signals and high-resolution RGB video. The card incorporates a microprocessor for controlling the on-board circuits and is able to function as a communications controller via its four serial ports. A build option is available to provide PAL or NTSC composite video from RGBS TV video signals.

The switch functions can be controlled via the serial lines, or directly from the VME bus. Comprehensive Built-in Test (BIT) routines verify the correct operation of the on-board circuits at power-on and when initiated by the host.

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Table 1: Specifications

Functional	
Crosspoint Array	8 inputs, 32 outputs
VME Interface	Memory DTB slave (RMW) A24, D16/08(EO)
PAL Encoder	RGB & comp sync input, YC & comp PAL O/P (only on specific variants)
Performance	
Video Input	Up to 1.3 V p-p including sync, differential input
DC Offset	Up to +/-1V offset on black level
Common Mode	Up to +/-5V
Bandwidth	150 MHz minimum
Output Drive	20 mA minimum into 75Ω load
Surge Protection	Able to withstand 50 V for 5 ms on any video input

Mechanical	
Dimensions	233 mm x 160 mm (double Eurocard), Occupies 1 VME slot
Backplane Connectors	x2 DIN41612 96-way P1 and P2 and 95-way P0 (P0 fitted only on specific variants)
Front Panel Connectors	9-way 'D' type (air-cooled only)
Reset Switch	Front panel push button (air-cooled only)
Mass	450 g max. (air-cooled), 650 g max. (conduction-cooled)
Power Requirements	
Volts	+5 V +/- 5% at 1.5 A (max.) +12 V +/- 10% at 0.02 A -12 V +/- 10% at 0.15 A
Environmental	
Air-cooled	Level 0
Conduction-cooled	Level 200(for further details please see Curtiss-Wright Ruggedization Table)

Figure 1: VxPoint Block Diagram

