

## Advanced Graphics Display Technology

The Datapath Vantage4 range of PCI graphics adapters offers the ultimate solution for high-end video and data wall applications. The new Vantage4 provides the highest performance graphics processing with low power operation allowing up to a maximum of 16 cards in a single PC. The Vantage4-PRO offers a low cost option for video overlays, providing 1 overlay per display channel and an on-board 16 x 8 video matrix switch. The Vantage4-SIP also provides 1 video overlay processor per display channel combined with 256Mb of overlay memory, supporting up to 16 overlay windows per display channel with tripple buffering.

## Software Features

Special multi-screen display driver for use with Windows® 2000, Windows® Server 2003 and Windows® XP Professional. The function of the display driver is to present one large desktop to the Windows operating system. The multi-screen driver will support up to a maximum of 64 screens.

## The Vantage4

- 4-Port graphics adapter
- 4-Delta Chrome GPU's each with 32Mb DDR 250MHz frame buffers (Total 128Mb)
- 4-Analog VGA outputs up to 2048 x 1536
- 4-DVI outputs up to 1600 x 1200
- 4-TV outputs. PAL/NTSC/S-Video, HDTV with high quality flicker filters
- Support for up to 16 cards providing outputs for up to 64 displays



## The Vantage4-PRO

Has all the features of the Vantage4 and in addition:

- 4 high quality video overlays, each at 720 x 576 resolution (one overlay per channel)
- 4 PAL/NTSC/SECAM decoders for either Composite or S-Video
- 4 high quality de-interlaced video overlays with triple buffering
- In built 16 x 8 video matrix switch supporting sixteen composite or 8 S-video inputs



The Vantage4-PRO video overlays provide 1 overlay window per display channel. The overlays can be positioned and sized anywhere across the multi-screen display. The restriction is that no more than 1 overlay may be displayed on the same screen. Vantage4-PRO is used in conjunction with the VIM16 for inputting video sources. Various input modules are available and support up to 128 video inputs. Each overlay window can select anyone of the available inputs for display.

### Vantage4-SIP

Has all the features of the Vantage4 and in addition:

- 4 SIP video processors each with 64Mb of overlay memory (total 256Mb)
- High speed 5Gb/s SIP digital video input port for Mosaic-SQ16 and Mosaic-HQ supporting up to 128 video channels
- 16 video overlay windows per display channel (64 per card)
- 4 1280 x 1024 high resolution video overlays



### Specifications

#### Vantage4:

Card Format	32bit 66MHz PCI adapter
Card Size	105mm x 310mm Full size
Number of output channels	4
Max Analog output resolution/channel	2048 x 1536 x 60Hz
Max DVI output resolution/channel	1600 x 1200 x 60Hz or 2048 x 1536 x 35Hz
TV output formats	NTSC, PAL, or HDTV in either Composite or S-video
Max No of cards/system	Up to 16 cards (64 display channels)
Max current at 3.3V	4.20 A
Max current at +5V	2.70 A
Max power	27.36 Watts
Operating temperature	0 to 35 Deg C ambient
Storage temperature	-20 to +70 Deg C
Relative humidity	5% to 90% non-condensing

Vantage4-PRO

Card Format	32bit 66Mhz PCI adapter
Card Size	105mm x 310mm Full size
Number of output channels	4
Max Analog output resolution/channel	2048 x 1536 x 60Hz
Max DVI output resolution/channel	1600 x 1200 x 60Hz or 2048 x 1536 x 35Hz
Max No of overlay windows	One per output channel (4 windows)
TV output formats	NTSC, PAL, or HDTV in either Composite or S-Video
Max No of cards/system	Up to 16 cards (64 display channels)
Max No of video inputs	128 composite or 64 S-Video
Video input formats	NTSC, PAL or SECAM in either Composite or S-Video
Video overlay resolution (max)	720 x 576 (De-interlaced)
Video window up date rate	Real time 25/30 frames/sec (PAL/NTSC)
Max current at 3.3V	4.00 A
Max current at +5V	3.30 A
Max power	29.70 Wats
Operating temperature	0 to 35 Deg C ambient
Storage temperature	-20 to +70 Deg C
Relative humidity	5% to 90% non-condensing

Video Input Options for the Vantage4-PRO:

VIM16

The VIM16 provides 16 analog inputs to each set of Vantage4-PRO cards it is connected to. Each video overlay window can select any one of 16 possible video inputs.

VisionSwitch32-H

For systems needing more than 16 inputs use a single or multiple VisionSwitch32-H cards to increase the number of inputs to 32, 64, 96 or 128. (1, 2, 3 or 4 VisionSwitch32-H cards) The VisionSwitch32-H is supplied with 2 BNC16-cables or the optional PANEL-16A

Vantage4-SIP Specification

Card Format	32bit 66Mhz PCI adapter
Card Size	105 x 310mm Full size
Number of output channels	4
Max Analog output resolution/channel	2048 x 1536 x 60Hz
Max DVI output resolution/channel	1600 x 1200 x 60Hz or 2048 x 1536 x 35Hz
Max No of overlay windows	Sixteen per output channel (64 windows)
TV output formats	NTSC, PAL, or HDTV in either Composite or S-Video
Max No of cards/system	Up to 16 cards (64 display channels)
Overlay frame buffer resolution	1280 x 1024 x 4
Digital SIP input bus speed	5Gb/s
Max No of digital video channels	128
Video window up date rate	Real time 25/30 frames/sec (PAL/NTSC)
Max current at 3.3V	6.80 A
Max current at +5V	2.80 A
Max power	36.44 Watts
Operating temperature	0 to 35 Deg C ambient
Storage temperature	-20 to +70 Deg C
Relative humidity	5% to 90% non-condensing

Ordering Information

Vantage4	Supplied with 2 analog RGB splitter cables for connection to displays
Vantage4-PRO	
Vantage4-SIP	



RGB-S-Cable

Vantage4-DVI

Vantage4-PRO-DVI

Vantage4-SIP-DVI

Supplied with 2 DVI splitter cables for connection to displays.



DVI-S-Cable

Vantage4-HDTV

Vantage4-PRO-HDTV

Vantage4-SIP-HDTV

Supplied with 2 analog TV splitter cables for connection to High Definition TV.

Supports:

4 x Composite

4 x S-Video

4 x YPrPb for HDTV



HDTV-S-Cable

For details on how to purchase these products contact our sales department  
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