ImageDP4

FOUR CHANNEL GRAPHICS CARD WITH DISPLAY OUTPUTS
Advanced Graphics Display Technology

+ HIGH PERFORMANCE CARD

The ImageDP4 combines a single, powerful graphics processor with improved memory and PCI Express bandwidths to provide responsive performance at up to double the resolution of previous Datapath graphics cards. Up to sixteen ImageDP4 cards can be supported by the Datapath display driver, providing flexible system configurations up to 64 fully frame-locked screens.

The ImageDP4 cards operate under Windows®7/ Server 2008 64bit and spread the Windows® desktop across a multi-screen surface, allowing flexible configurations of both portrait and landscape screen orientations. This makes the ImageDP4 ideal for display wall and digital signage applications.

ImageDP4 is optimised for use with the Datapath Vision range of capture cards for systems requiring SD, HD, RGB, DVI and 3G-SDI video overlays. Video windows can be positioned and sized anywhere on the multi-screen desktop, while maintaining full frame rate, true colour rendering throughout. Combining the Vision video capture with ImageDP4 graphics display allows the construction of high-end display wall systems of up to 64 screens.

The ImageDP4 card natively supports four full-sized DisplayPort outputs for the convenience of high resolution, locking cable connectors and significantly longer cable lengths.

+ FEATURES

- PCI express 2.1 bus interface electronically supporting x4, x8 and x16 lane widths

- 4 Outputs of DisplayPort1.1a each providing DisplayPort 1.1a video of up to 359Mpixels/s at 24bit (eg 2560x1600 @60Hz)

- Convert 4 outputs to 2 outputs each supporting 3840x2160p @ 30Hz

- HDCP supported

- DVI support using a catalogue of DisplayPort cables and adaptors

- Support for up to 16 cards in a single system

+ SOFTWARE

Drivers

Special multi-screen display driver for use with Windows® 7 64bit and Windows® Server 2008. 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.

Wall Control

Datapath Wall Control software enables you to simply launch and position video and application windows to create complex wall layout configurations.

Wall Control presents a representational window of the entire display wall showing position and size of windows, including a live sample of all video content. With the full version it is possible to save layouts and recall them for future use and also operate Wall Control on a remote PC via a network connection. The ImageDP4 card is supplied with a free version of Wall Control without these advanced features.

+ MODELS AVAILABLE

Order Code: ImageDP4
4 channel Display Port PCI graphics card

Order Code: ImageDP4/ DVI
4 channel Display Port PCI graphics card with 4 x DVI adapters

+ ACCESSORIES

Order Code: DP adapt
Display Port to DVI adapter and powered cable. Cable available in 10, 15, 20 metres.

Order Code: DPextend
Display Port signal extender and powered cable. Cable available in 10, 15, 20 metres.

All products are shipped with the latest software available, unless stated otherwise. Special requirements may be organised by contacting our Sales team.

+ SPECIFICATIONS

Card format	16 lane PCI Express
Card size	110mm x 177mm (incl heat sync)
Max output resolution	4 x 2560 x 1600 @ 60Hz (max 359Mpixels/s) or...
	2 x 3840 x 2160 @ 30Hz
Max cards per system	16 (64 display channels)
Graphic card memory	512MB total
Max current at +3.3V	0.25A (+ 1.8A when powering four channels of DPextend + DPadapt)
Max current at +12V	1.2A
Max Thermal Power	15 watts
Operating temperature	0 to 35 deg C / 32 to 96 deg F
Storage temperature	-20 to 70 deg C / -4 to 158 deg F
Relative humidity	5% to 90% non-condensing
MTBF	Over 180,000 hours

We are continuously developing the technology used within our product ranges delivering outstanding innovative solutions, therefore the specification may change from time to time.

DATAPATH
EXCELLENCE BY DESIGN