VisionSC-DP2

Dual DisplayPort video capture card
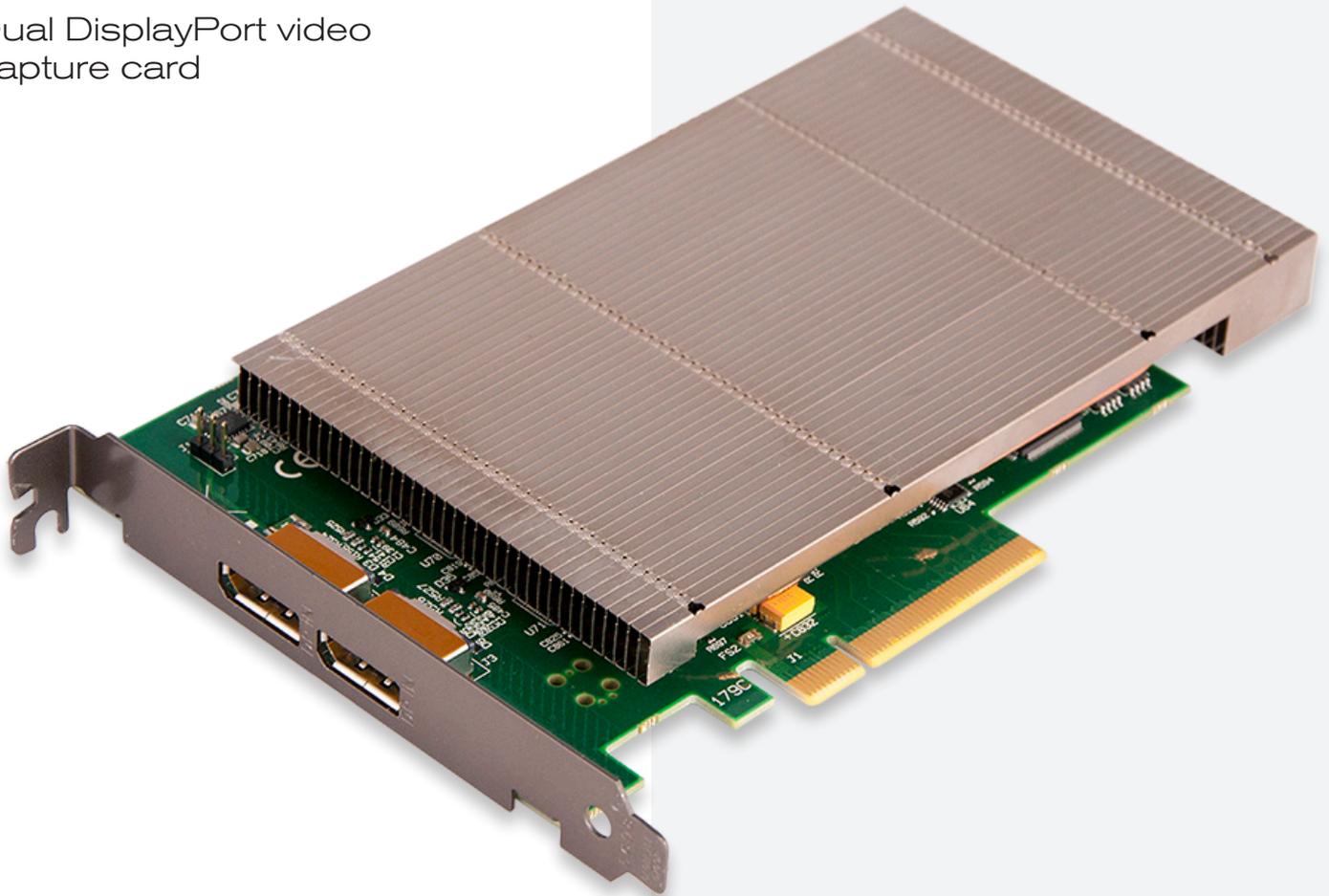
HIGH PERFORMANCE CARD

The professional AV market has begun to adopt 4K UHD technologies, with integrators and system builders demanding higher performance and greater resolutions in the video that they are working with.

The Datapath VisionSC-DP2 offers video professionals the ability to simultaneously capture multiple 4K, Ultra-High Definition, video feeds each at 60 frames per second.

Developed as part of the VisionSC family of capture cards, the VisionSC-DP2 offers unmatched capture performance and reliability.

FEATURES

- Two independent DisplayPort 1.2 capture channels
- Eight lane PCIe Gen 3 interface, Net 6 GB/s total capture bandwidth
- Frame buffer memory - 768 MB
- Up to 8K x 8K capture resolution*
- Single PCIe endpoint, allowing for more cards & captures to be placed within a single system
- HDCP Support**
- Datapath unified Windows and Linux driver support
- Frame Sequential 3D mode

Engineering the **world's best** visual solutions

DATAPATH
EXCELLENCE BY DESIGN

Professional audio and video capture card

VISION PERFORMANCE FEATURES

The VisionSC-DP2 is supported by the Datapath Vision Performance Driver. Combining both Hardware and Software enhancements the Vision Performance Driver provides users with a variety of features to help them achieve their goals. Features include LiveStream low latency capture solution, MultiStream allowing for the independent control of multiple instances of a single capture, a hardware based time stamping facility, automatic signal detection and more.

To see our full range of Vision features, please visit our product section on our website **www.datapath.co.uk**.

VIDEO STREAMING

DirectShow drivers for WDM Streaming supports the following applications to encode, record and stream video over networks or the Internet:

- Microsoft Media Encoder®
- VLC
- VirtualDub
- Any other DirectShow encoding software

For streaming applications, the VisionSC-DP2 can be used with Windows Media Encoder to compress and stream captured video. To replay the video use Windows Media Player.

Any application compatible with Windows® DirectShow technology can use the VisionSC-DP2 due to its built-in WDM support.

COMPATIBILITY

The VisionSC-DP2 is supported by the following operating systems: Windows® 10, 11, Windows Server 2019, 2022. Video 4 Linux (V4L)

Datapath SDK is included for software developers.

MODELS AVAILABLE

Order Code: VisionSC-DP2
Dual DisplayPort 1.2 capture card
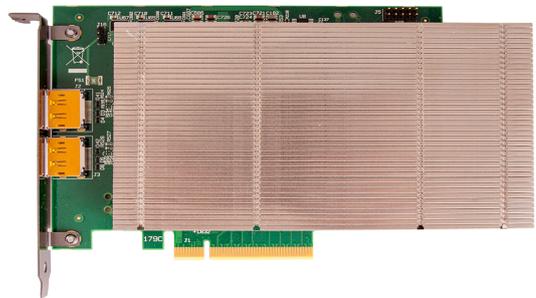
SPECIFICATION

BOARD FORMAT
PCIe x8 plug-in card OTS

DIMENSIONS
110mm x 177mm (incl heat sink)

CONNECTORS
Locking Dual DisplayPort 1.2

MAX CAPTURE RESOLUTION
616MPixel/second capture bandwidth per channel. Captures up to 4096 x 2160p at 60Hz per input

FRAME BUFFER
768MB

HDCP
Supported in combination with Datapath graphics cards

INPUT MODE DETECTION
Decodes Main Stream Attribute (MSA) data to determine video geometry

PIXEL TRANSFER FORMATS
RGB: 4:4:4, 5-5-5, 5-6-5 (16 bit) or 8-8- 8 (24 bit) or 8-8-8-alpha (32bit) YUV:4:2:2 (16 bit) MONO: 8bit

PIXEL CAPTURE FORMAT
RGB with 18,24 bits per pixel Frame Sequential 3D mode

UPDATE RATE
User defined. Captured frame rate will match the source providing max data rate (6GB/s) is not exceeded. Multi-buffered to eliminate tearing artifacts

POWER REQUIREMENTS
Max current at +12V - 1.3A
Max power ≈ 16W

OPERATING TEMP
0 ℃ to 35 ℃ / 32 ℉ to 96 ℉

STORAGE TEMP
-20 ℃ to 70 ℃ / -4 ℉ to 158 ℉

RELATIVE HUMIDITY
5% to 90% non-condensing

WARRANTY
3 years

8K x 8K at lower frame rates supported based on preliminary testing.

** *HDCP supported when combined with Datapath Graphics Cards.*

*** *Note that scaled images are limited to a maximum of 30fps.*

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

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