

VFC cards



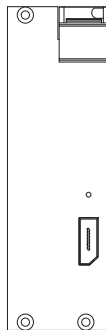
VFC cards

POWER TO ADAPT

Disguise's patented Video Format Conversion (VFC) technology is a swappable output card that slots into the back of the GX and VX range servers.

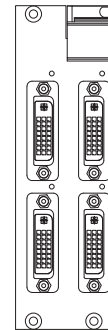


DISPLAYPORT 1.4



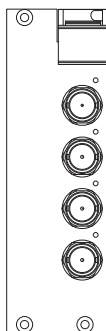
Ports: 1x DisplayPort 1.4 output
Video outputs: Up to 1x 4K DCI output
Resolutions*: Up to 4K DCI
Frame rate: Up to 60Hz**
Bit depth: Up to 10bit
Chroma subsampling: RGB & YUV 4:4:4, 4:2:2, 4:2:0
HDR support: Yes
Genlock: Yes
PTP support: No
Latency: 0 scanlines
Supports: GX 3 + all VX range

QUAD DVI



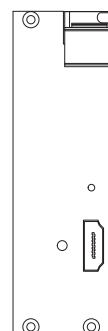
Ports: 4x Dual-Link DVI outputs
Video outputs: Up to 1x 2K DCI output or 4x HD outputs using quad split modes
Resolutions*: Up to 2K DCI
Frame rate: Up to 60Hz
Bit depth: Up to 8bit
Chroma subsampling: RGB 4:2:2
HDR support: No
Genlock: Yes
PTP support: No
Latency: 4-5 scanlines
Supports: All GX range + VX range + Pro range

QUAD SDI



Ports: 4x 3G-SDI outputs
Video outputs: Up to 1x 4K DCI output using Quad 4K split mode or 4x Full-HD outputs using quad split mode
Resolutions*: Up to 4K DCI
Frame rate: Up to 60Hz
Bit depth: Up to 10bit
Chroma subsampling: YUV 4:2:2
HDR support: Yes
Genlock: Yes
PTP support: No
Latency: 4-5 scanlines
Supports: All GX range + VX range + Pro range

HDMI



Ports: 1x HDMI 2.0 output
Video outputs: Up to 1x 4K DCI output
Resolutions*: Up to 4K DCI
Frame rate: Up to 60Hz**
Bit depth: Up to 10bit
Chroma subsampling: RGB & YUV 4:4:4, 4:2:2, 4:2:0
HDR support: Yes
Genlock: Yes
PTP support: No
Latency: 0 scanlines
Supports: All GX range + VX range + Pro range

* Progressive scan only.

** For higher frame rates please contact our Solutions team.

*** Please see TA-23 listed on Disguise Support [here](#) for a detailed overview on Disguise media servers and their compatibility with existing VFC cards

IP-VFC

UNLOCK HIGHER IMAGE FIDELITY

You can now enable an ST 2110 video output from your Disguise hardware with minimal latency thanks to our new IP-VFC card.



TECHNICAL SPECIFICATIONS

Ports: 4x 25GbE SFP28 outputs

Video outputs: Up to 1x 4K DCI output* or 4x Full-HD outputs using QUAD mode in ST 2110 only

Resolutions:** Up to 4K DCI

Frame rate: Up to 60Hz***

Bit depth: Up to 10bit

Chroma subsampling: ST 2110 - RGB (Full), YCbCr 4:4:4, YCbCr 4:2:2

SDI - YCbCr 4:2:2

HDR support: Yes

Genlock: Yes

PTP support: Yes

Latency: 0 scanlines

Supports: GX 3, GX 3+ (SDI mode only), VX 4+

SUPPORTED FORMATS

4K DCI (4096 x 2160)

4K DCI 23.98p, 4K DCI 24p, 4K DCI 25p, 4K DCI 29.97p, 4K DCI 30p, 4K DCI 50p, 4K DCI 59.94p, 4K DCI 60p (SINGLE)****

UHD (3840 x 2160)

2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60 (SINGLE)****

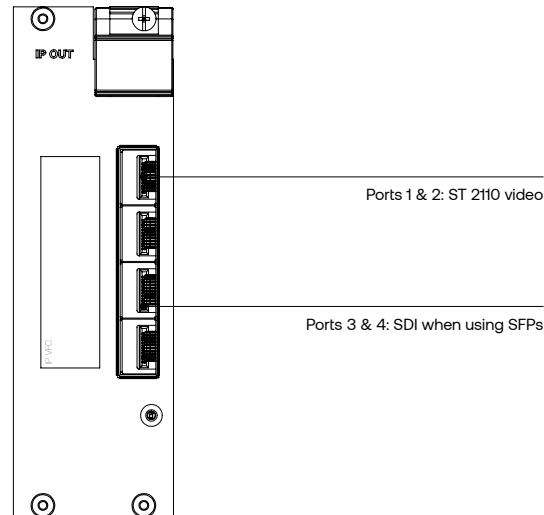
2K DCI (2048 x 1080)

2K DCI 23.98p, 2K DCI 24p, 2K DCI 25p, 2K DCI 29.97p, 2K DCI 30p, 2K DCI 50p, 2K DCI 59.94p, 2K DCI 60p (SINGLE, QUAD)****

Full HD (1920 x 1080)

1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080i50, 1080p59.94, 1080i59.94, 1080p60 (SINGLE, QUAD)****

HD (1280 x 720) 720p23.98, 720p24, 720p25, 720p29.97, 720p30, 720p50, 720p59.94, 720p60 (SINGLE, QUAD)****



* When in ST 2110 mode, a redundant SMPTE 2110 video signal using Port 2 can be enabled in the event that the video signal from Port 1 goes down, using SMPTE 2022-7 for packet-level redundancy

** Progressive scan only

*** For higher frame rates please contact our Solutions team

**** The IP-VFC has a split mode, which indicates how the video is formatted. SINGLE mode is when a single video output is enabled for usage with 25GbE SFP28 or a single 12G SDI optical transceiver. QUAD Mode creates four different Full-HD screens, each with their own contents. QUAD Mode is supported in ST 2110 only, and is not currently supported in SDI mode.