



DisplayPort to Quad SDI

Theatrx



#XVVR-4DP2QSDI

While 4K video sources are well on their way to becoming commonplace in professional and consumer electronics, and 8K right is around the corner, there is still a fair amount of signal transport and display solutions utilizing Full-HD infrastructure. 3G-SDI is a proven, reliable transport medium and trusted by millions of users worldwide, and a staggering amount of displays and projectors are still being shipped with native Full-HD support. Meanwhile, 4K sources such as computers and media servers are readily available, and this often creates a case of wastage when the displays can't use the full pixel output of a source. Introduction the Theatrx DisplayPort to Quad-SDI converter - the ideal bridge between your 4K sources and Full-HD displays. It has been designed with a single function in mind: take a 4K50/60, DisplayPort 1.2 input signal, and slice it into four 1080p60 quadrants on 3G-SDI connectors. Featuring 4 processing channels in a compact 1U enclosure, the device is capable of taking 4x 4K60 DisplayPort inputs and delivering 16 Full-HD, 1080p60 outputs simultaneously with zero configuration. Latency is kept to a minimum thanks to a simplified yet robust processing architecture. Each processing channel features a Gen-Lock input and loop thru for external synchronization, and the device is capable of generating a test pattern when no signal is applied to its input. The DisplayPort to Quad-SDI converter is future proof, enabling multiple channels to be synchronized together to handle combined resolutions of 8K, 16K, and more.

Features

Internal or external (tri-level) sync source with automatic detection

Less than **2 frames latency**

Built-in test pattern automatically enabled when no signal present (or black field, user-selectable)

Pre-configured EDIDs for both 60Hz and 50Hz (user-selectable)

Also available as a single-channel module in **stage box or reversible module format**



Connections

Processing Modules

4 fully independant DP to Quad SDI with sync

Video Input

4 x DisplayPort 1.2

Video Ouput

4 x Quad-link 3G-SDI BNC (16 BNC)

Sync Input

Tri-level sync (BNC) with loop-thru

Supported Signals

DisplayPort 1.2 / HDMI 2.0 input (4K60P 4:4:4)

4096x2160p @ 60/50 fps
4096x2160p @ 30/25/24 fps
3840x2160p @ 60/50 fps
3840x2160p @ 30/25/24 fps
1920x1080p @ 60/50 fps
1920x1080p @ 30/25/24 fps
1920x1080i @ 60/50 fps

Quad-Link 3G-SDI Output (4 x 1080P 4:2:2)

4096x2160p @ 60/50/30/25/24 fps 3840x2160p @
60/50/30/25/24 fps

Embedded Audio Support

Up to 8 channels, 24 bit, 48 kHz

Default EDID

3840x2160p @ 60 or 50 fps (selectable)

Power Requirements

Power Supply

Built-in power supply



PowerCon input/loop thru

Power Consumption

100W max

Operational Voltage Range

90-250 V 50-60 Hz

Physical

Height

43.43 mm (1.7 in) – 1 RU

Depth

178 mm (7 in)

Width

482.6 mm (19 in)

Weight

3.75 kg (8.25 lbs)

Environmental

Operating Temperature

0-40° C

Relative Humidity

0-90 % non-condensing

In the box

xVision DisplayPort to Quad SDI
Power Cable



Certifications



DESIGNED & MANUFACTURED
IN CANADA 

