

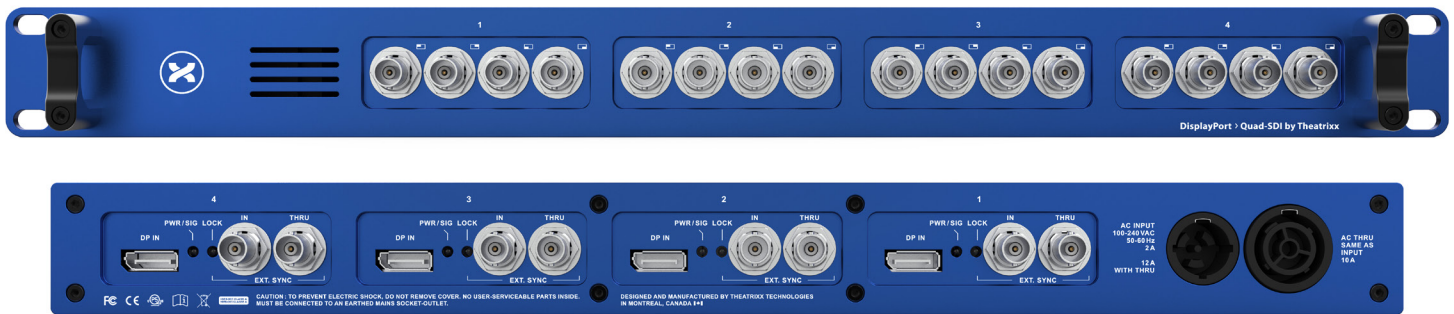
RackMount Video Converter

DisplayPort to Quad SDI (1 RU)

TXVV-R-4DP2QSDI



DESIGNED & MANUFACTURED
IN CANADA 🇨🇦



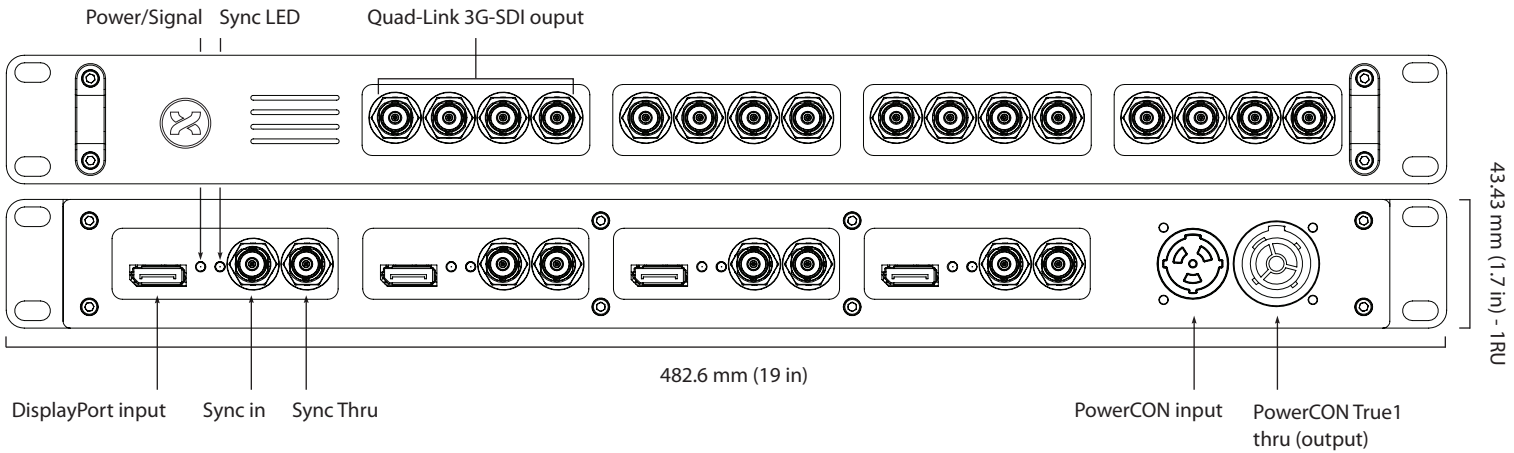
While 4K video sources are well on their way to becoming commonplace in professional and consumer electronics, and 8K right is around the corner, there is still a fair amount of signal transport and display solutions utilizing Full-HD infrastructure. 3G-SDI is a proven, reliable transport medium and 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 Theatrixx 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 Output	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	90-250V 50-60 Hz

Physical Specifications

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)

Environnemental Specifications

Operating Temperature	0-40° C
Relative Humidity	0-90 % non-condensing

In the box

- xVision DisplayPort to Quad SDI
- Power Cable

Certification

This device complies with the following international standards	CAN/CSA-C22.2 NO. 60950 UL 60950 FCC Part 15 Class A CE
--	--

43.43 mm (1.7 in) - 1RU

April 2019

subject to change without notice