Rackmount Converter
4 x DisplayPort to Quad 3G-SDI (1RU)

XVVR-4DP2QSDI

theatrixx

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.**

Ordering Information

XVVR-4DP2QSDI .... Theatrixx 4 x DisplayPort to Quad 3G-SDI

Specifications

Overview

Inputs/Outputs

Processing Modules	4 fully independant DP to Quad SDI with sync
Video Input	4 x DisplayPort 1.2
Sync (Gen-Lock) Input	4 x Tri-level sync (BNC)
Loop-thru	4 x Tri-level sync (BNC)
Video Output	16 x 3G/HD/SD SDI BNC (4 x Quad-Link)

Supported Signals

DisplayPort 1.2 / HDMI 2.0 Input	4096x2160p @ 60/50 fps
4K60P 4:4:4	4096x2160p @ 30/25/24 fps, 3840x2160p @ 60/50/30/25/24 fps, 1920x1080p @ 60/50/30/25/24 fps, 1920x1080i @ 60/50 fps
Quad-Link 3G-SDI Output	4096x2160p @ 60/50/30/25/24 fps
4 x1080P 4:2:2	3840x2160p @ 60/50/30/25/24 fps
Embedded Audio	Up to 8 channels, 24 bit, 48 kHz
Default EDID	3840x2160p @ 60 or 50 fps (selectable)

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)
Alternate Form Factor	Also available in standalone unit - 1 channel

Also available in rackmount module (RM) - 1 channel

Environnemental Specifications

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

Power Requirements

Power Supply	Built-in power supply PowerCon input/loop thru
Power Consumption	100W max
Voltage Range	100-240V, 50-60Hz

In the Box

Theatrixx Rackmount DisplayPort to Quad-SDI
AC Mains to PowerCON True1 cable (1.5m, specify plug type at ordering, extra power cable on request)

Certifications & Compliance

This device complies with the following international standards

FC c(PS)us CE 4K ULTRAHD