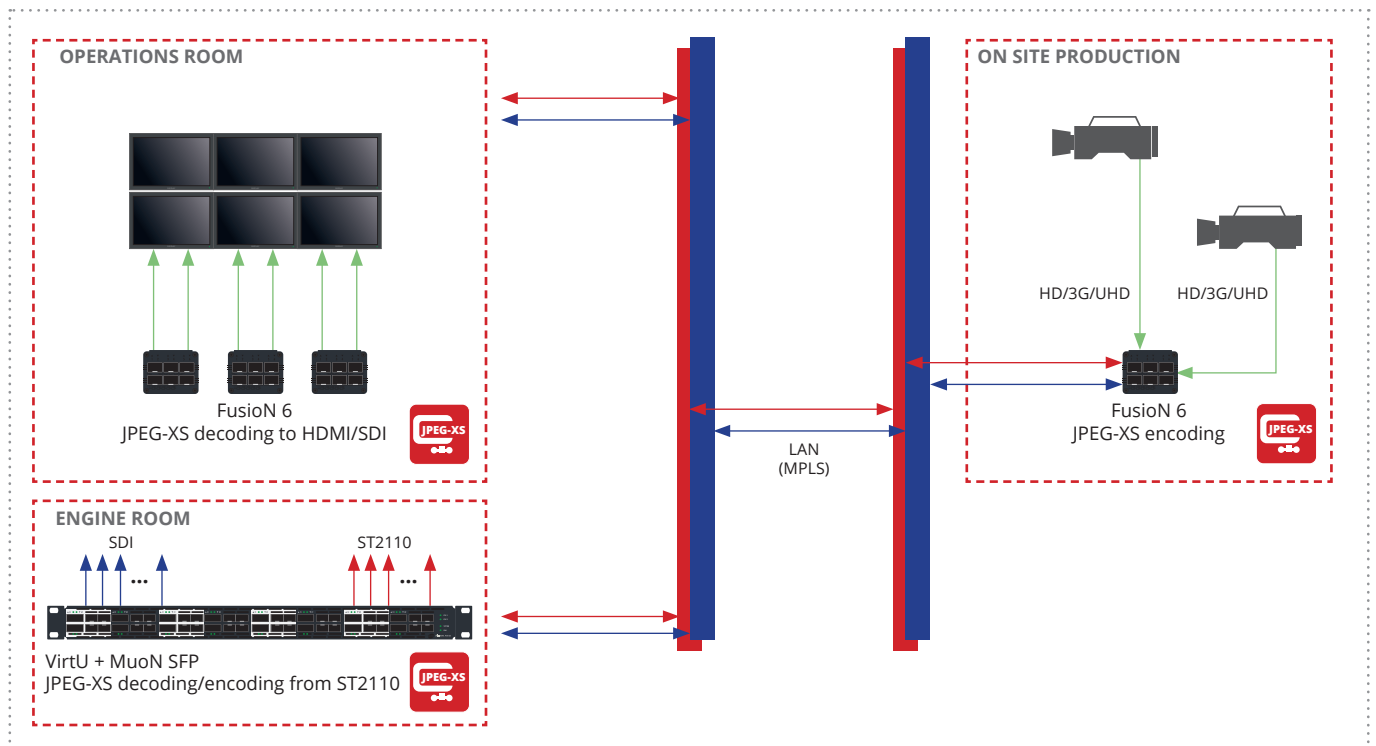# Signal Contribution using JPEG-XS

Starring: MuoN and FusioN Products

Riedel enables the transmission of feeds between different locations for contribution or for live remote production with the introduction of its JPEG-XS encode/decode solution, processed inside MuoN SFP miniature pluggable devices.

This product establishes the mark by combining the gateway conversion to or from IP ST2110 with the encoding and decoding, while also providing SDI connectivity. The ultra-compact Riedel solution is available inside the VirtU 32 1RU Media HUB chassis or via the miniature standalone FusioN frames.

Key Benefits:

- Highest density on the market; 64 encode/decode within a single RU
- Agile & repurposable software-defined hardware
- Support of JPEG-XS codec
- Provides ST2110 and SDI I/Os
- Fully configurable compression scheme & bitrates including lossless compression
- Fast and lossless transmission

Remote Production Solution

OPERATIONS ROOM

FusioN 6
JPEG-XS decoding to HDMI/SDI

ENGINE ROOM

SDI   ST2110

VirtU + MuoN SFP
JPEG-XS decoding/encoding from ST2110

LAN
(MPLS)

ON SITE PRODUCTION

HD/3G/UHD   HD/3G/UHD

FusioN 6
JPEG-XS encoding

Redefined JPEG-XS encode/decode

Riedel empowers its miniature SFP and standalone box design to offer a targeted solution for remote production applications. The product makes no compromises on functionality and uses the most compatible core implementation by INTOPIX.

Encoding applications:

- FusioN B: 10GE media interface with SDI and ST2110 connectivity simultaneously
- MuoN B: 25GE media interface with ST2110 IP to IP
- HD/3G formats (UHD optional)
- ST2110-22 individual essence routing
- Lossless picture quality
- Ultra-low latency with 23 lines (encode/decode) path
- Selectable bitrates
- YUV 4:2:2 10Bits formats
- ST2022-7 (Class A-D)
- Optional frame synchronizer
- In-band control via RESTful, Ember+ and NMOS

Application targeted design

VirtU Media Processing Hub

Installed in your core system using MuoN SFP inside VirtU infrastructure and processing frame

MuoN SFP
Dual channel
IP ST2110 encoder

MuoN SFP
Dual channel
IP ST2110 encoder

Installed near your cameras or at the back of your monitor using FusioN miniature and quiet standalone converter.

FusioN 6
Dual channel
12k decoder or decoder to ST2110
+ selectable HDMI or SDI I/Os