Selenio Network Processor

JPEG XS Connectivity Solutions

VSF TR-08 Compliant

VSF TR-07 Compliant

Selenio™ Network Processor (SNP) is a high-density, scalable, reconfigurable platform that enables media companies to perform video processing and conversion functions on standards-based IP networks using the SMPTE ST 2022-6 and ST 2110 standards, while also supporting SDI and 12G-SDI. Typical applications include connecting between facilities or transporting signals to/from cloud-hosted applications.

The SNP now offers support of the new JPEG XS compression codec, which can deliver production-quality video at compression rates between 1 and 4 bits-per-pixel (BPP).

The JPEG XS Encoding Personalities (JXSE) perform JPEG XS encoding on eight signals of 1080p or less, or two UHD (2160p) signals. The inputs to the JXSE personalities can be SDI or ST2110 or ST2022-6. The output of the JXSE personality is SMPTE ST2110-22 formatted JPEG XS video streams, compliant with VSF TR-08. A separate JXSE-TR07 personality is available which provides the same compression capability, packaging the output as an MPEG-2 Transport Stream compliant with VSF TR-07.

The JPEG XS Decoding Personalities (JXSD) perform JPEG XS Decoding of up to eight signals of 1080p or less, or two UHD (2160p) signals. The inputs are SMPTE ST2110-22 compliant to VSF TR-08, or Transport Stream compliant to VSF TR-07. Received signals can be fully asynchronous to the local plant in either case, and are frame synchronized to the local timebase of the receiving SNP, then output as ST2110-20/30/31/40 (optionally 2022-6) and SDI.

	1.2 BPP	2.5 BPP	4 BPP
1080i @ 50	62	130	207
1080i @ 59	75	155	248
1080p @ 50	125	260	414
1080P @ 59	149	310	497
2160p @ 50	500	1040	1656
2160p @ 59	596	1240	1990

ORDERING INFORMATION	
SNP-PSK-JXSE	SNP Platform Software Key — enables JXSE AP personality, supporting eight 1080p or two 2160p JPEG XS Encodes to VSF TR-08 or VSF TR-07 output (Max 4 keys per SNP). HD Proxy requires additional related key.
SNP-PSK-JXSD	SNP Platform Software Key — enables JXSD AP personality, supporting eight 1080p or two 2160p JPEG XS Decodes from VSF TR-07 or VSF TR-08 input (Max 4 keys per SNP). HD Proxy requires additional related key.