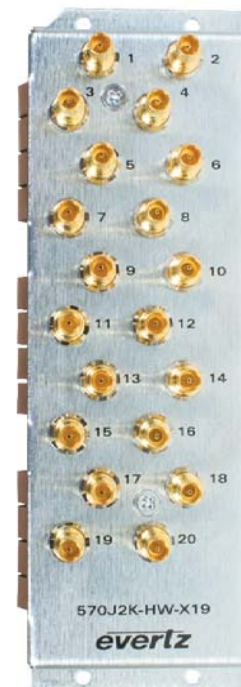
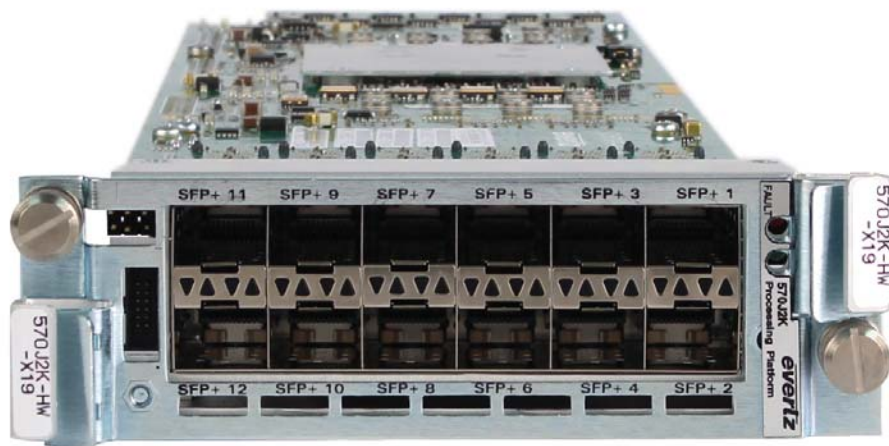


570J2K-HW-X19

Multi-channel J2K Encoder — Decoder



The 570J2K-HW-X19 is the optimal multi-channel J2K encoding and decoding platform. With direct conversion of up to 12 signals utilizing JPEG2000 mezzanine compression, the 570J2K-HW-X19 series delivers unparalleled processing density. Equipped with Advanced Encryption Standard (AES 128), the 570J2K-HW-X19 provides industry-leading encryption.

The exceptional density of the 570J2K-HW-X19 supports up to 12 channels of 3G, HD/SDI, SD/SDI or up to 3 channels of UHD JPEG2000 encoding. The 570J2K-HW-X19 will support up to 9 channels of 3G, HD/SDI, SD/SDI JPEG2000 or 2 channels of UHD JPEG2000 decoding.

With a truly unique and flexible design, the 570J2K-HW-X19 supports a variety of operating modes. Supported modes include: 12 JPEG2000 encodes or 9 JPEG2000 decodes or 6 JPEG2000 encodes and 6 decodes on a single 570J2K-HW-X19 module. The 570J2K-HW-X19 features Evertz' fourth-generation ultra-low latency, high-density JPEG2000 codec technology over multiple 10Gb Ethernet links or user-configurable 1Gb Ethernet connection.

The 570J2K-HW-X19 will provide auto-timing time-stamped Ethernet outputs, multi-resolution JPEG2000 streaming outputs and incorporates patent pending multi-path, multi-flow packet merge base network bit error resilience for 100% QoS.

The 570J2K-HW-X19 can be managed via integrated HTTP web interface as well as SNMP management via Frame Controller.

► Features & Benefits

- Application Mode A supports up to 12x 3G/HD/SD or 3x UHD JPEG2000 Encodes
- Application Mode B supports up to 9x 3G/HD/SD or 2x UHD JPEG2000 Decodes
- Application Mode C supports up to 9x 3G/HD/SD uncompressed 10G inputs, as well as 9x 3G/HD/SD or 2x UHD JPEG2000 Encodes
- Application Mode D supports up to 9x 3G/HD/SD uncompressed 10G outputs, as well as 9x 3G/HD/SD or 2x UHD JPEG2000 Decodes
- Application Mode E supports up to 6x 3G/HD/SD or 1x UHD JPEG2000 Encodes and up to 6x 3G/HD/SD or 1x UHD Decodes
- Standards Supported: 3840x2160p/59.94, 3840x2160p/50, 1080p/59.94, 1080p/50, 1080i/59.94, 1080i/50, 720p/59.94, 720p/50, 525i/59.94, 625i/50

Mezzanine Encode Processing and Encapsulation over IP:

- Video JPEG2000 encoded to native resolution
- 4x groups of audio encapsulated
- Full VANC encapsulation and pass-through

Mezzanine Decode Processing:

- Video JPEG2000 decoded from native resolution
- 4x groups of audio de-encapsulated
- Full VANC de-encapsulation and embedding on SDI outputs

Control and Baseband Processing

- Modules support control over frame controller or direct Ethernet interface
- SNMP control from VistaLINK or MAGNUM Unified Control

► Specifications

Serial Digital Video:

Standards: SMPTE 424M (3Gb/s), SMPTE 292M (1.5Gb/s), SMPTE 259M (270Mb/s), SMPTE 2022-6

Serial Video Input:

Number of Inputs: App A 12x SDI, App C 9x ASPEN Inputs, App E 6x SDI
 Connector: DIN, 4x SFP10G-TR13-A
 Input Equalization: Automatic to 100m @ 3 Gb/s, 150m @ 1.5 Gb/s, 350m @ 270 Mb/s

Return Loss: > 15dB up to 0.5 GHz, > 10dB up to 3 GHz

Serial Video Output:

Number of Outputs: App B 9x SDI or SMPTE 2022-6, App D 9x ASPEN Outputs, App E 6x SDI
 Connector: DIN, 4-6x SFP10G-TR13-A
 Rise and Fall Time: Per SMPTE spec

IP Output:

Ethernet Interface: 4-6x 10GbE SFP/SFP+
 Encapsulation: MPEG-2 TS over IP
 Uncompressed: SMPTE 2022-6, ASPEN
 Ethernet/IP Signaling: Multicast IGMP V2/V3 (SSM Support)

Embedding of HANC & VANC:

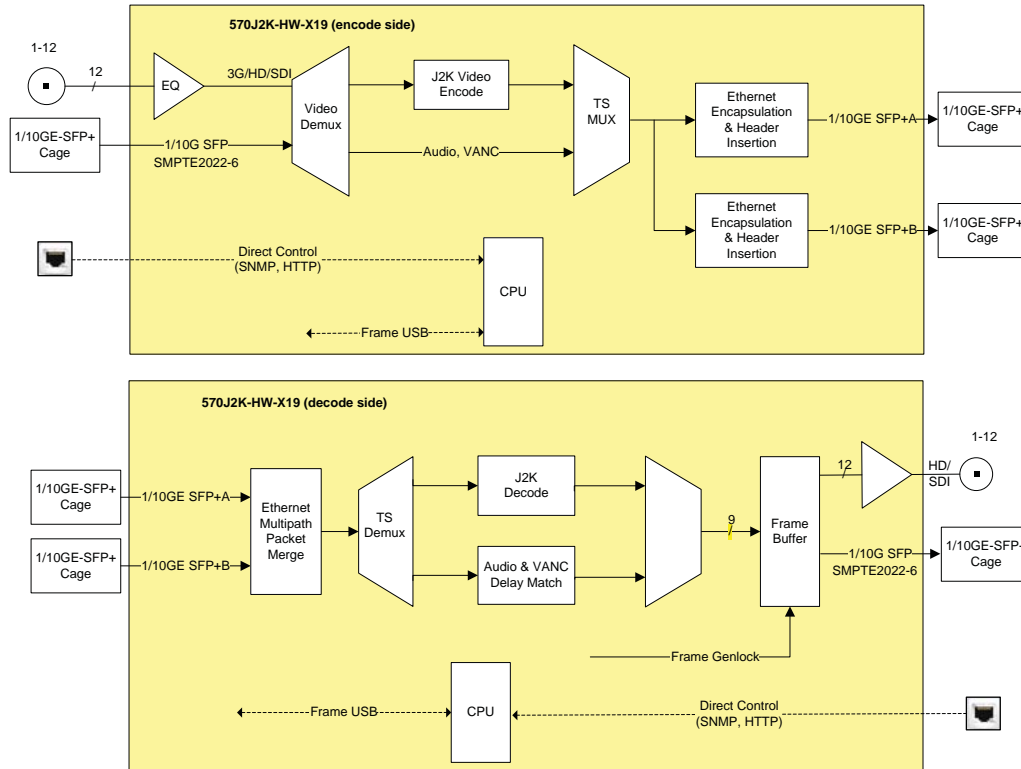
4x Groups audio pass-through per encoder
 All type of VANC data pass-through

Electrical:

Power: 90W
 Voltage: 12VDC
 EMI/RFI: Complies with FCC Part 15, Class A EU EMC directive

Enclosures:

570FR: 3RU chassis
 S570FR: 1RU chassis



Ordering Information

570J2K-HW-X19 Enhanced logic capacity 570FR hardware module acting as a bulk J2K encoder/decoder (encode licenses sold separately). 12x J2K Encodes/9x J2K Decodes and up to 4x 10GE interfaces using SFP+ cages (SFPs sold separately).

SFP Modules:
SFPTR-RJ45-SGM-AV 1GE electrical SFP
SFP1G-TR13 1GE optical SFP
SFP10G-TR13-A 10GE optical SFP+

Licensing Options:
570IPG-X19-CK-J2KP60 3G/HD/SD JPEG 2000 Encoder or Decoder License