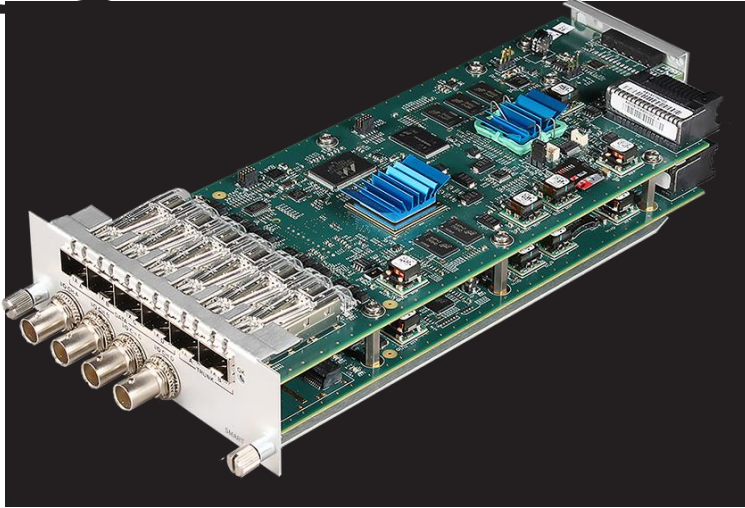




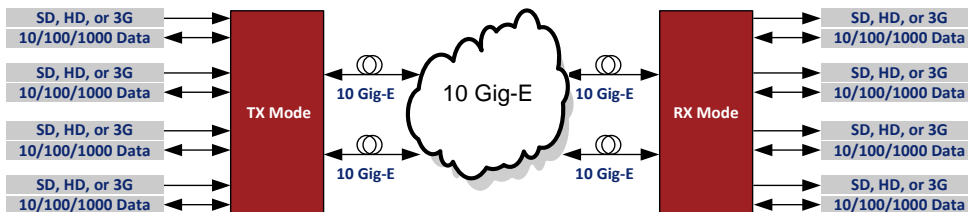
SMART Media Delivery Platform™ JPEG2000 Over IP Encoder - Decoder



The SMART Media Delivery Platform™ is a four-channel auto-sense 3G/HD/SD-SDI JPEG2000 Encoder/Decoder over IP (VSF TR-01) gateway with an integrated non-blocking Layer 2/3 switch

As the industry continues to move towards all IP networks, there is a need to provide more bandwidth efficient and cost effective delivery. The SMART Media Delivery Platform JPEG2000 is a four-channel auto-sense 3G/HD/SD-SDI-over-IP multifunction gateway with an integrated non-blocking Layer 2/3 switch. The Platform offers greater port density and utilization of 10 Gig Ethernet trunks. A four port Gig-E interface bridges user data to the 10 Gig Ethernet interface.

The SMART Platform JPEG2000 transmits video, audio and ancillary data in accordance with Video Services Forum TR-01:2013 Video-Over-IP Standards and features SMPTE 2022-1 Forward Error Correction (FEC) and SMPTE 2022-7 seamless protection switching. The platform offers VLAN tagging and bandwidth management capabilities. Functionality of the platform may be added to or upgraded via software download. The flexibility of function capabilities in the SMART Platform allows for a seamless transition as the end user's network evolves.



FUNCTIONS

- Four channels of JPEG2000 Video-Over-IP
- Contribution Quality Transport of 1080p, 1080i, 720p and SD-SDI
- Double high module can be configured as Video-to-IP Encoder or IP-to-Video Decoder
- Fully transparent carriage of SDI/SDTI including ancillary data and up to 8 audio channel pairs
- Four GigE data ports bridged to 10G interface
- VLAN tagging capabilities
- Supports unicast or multicast streaming

FEATURES

Automatic rate selection

- 2.970 Gb/s 1080p 3G-SDI (ST 424:2012)
- 1.485 Gb/s 1080i, 720p HD-SDI (ST 292:2011)
- 270 Mb/s SD-SDI (ST 259:2008, ITU 656)

Standards-based Conversion and Transmission

- Video Services Forum Recommendation TR-01:2013
- SMPTE ST 2022-7:2013 Seamless Protection Switching
- SMPTE ST 2022-2:2007 IP Encapsulation of MPEG2 TS
- SMPTE ST 2022-1:2007 FEC recovers lost, damaged or delayed packets

Flexible user configurable FEC and buffering settings

- Selectable transmitter row and column Forward Error Correction settings
- Selectable receiver buffering
- Designed to withstand burst outages in excess of 3 ms
- Can be disabled for minimum latency

Externally accessible SFP+ transceiver for 10G trunk interfaces

- Multimode (850 nm, 300 m)
- WDM (1310 nm, 1550 nm, up to 40km)
- CWDM ITU G.694.2 (Chs 27-61, up to 70km)
- DWDM ITU G.694.1 (Chs 21-60, up to 80km)

Externally accessible SFP transceivers for 1G user interfaces

- Multimode (850 nm, 300m)
- WDM (1310nm, 1550nm)
- CWDM ITU G.694.2 (Channels 27-61)
- DWDM ITU G.694.1 (Channels 21-60)

Front panel HD-BNC monitor

Configure, monitor, and manage via Digilink Manager or SNMPv2

SPECIFICATIONS

Environmental

| | |
|-----------------------------|----------------------------|
| Operating Temperature | 0 to 50°C |
| Ambient storage temperature | -40 to 80°C |
| Relative humidity | 10 to 95% (non-condensing) |
| Power dissipation | 38 Watts |

Physical

| | |
|--------|--------------------|
| | 2 slots in chassis |
| Weight | <2 pounds (1kg) |

Video Interface

| | |
|-------------------------------|--|
| Number of Video Channels | Four encoder or decode per module |
| Signal Formats (auto sensing) | 2.970 Gb/s 3G-SDI (ST 424:2012) 1080p50, 1080p59.94 1.485 Gb/s HD-SDI (ST 292:2011) 1080i50, 1080i59.94 720p50, 720p59.94 270 Mb/s SD-SDI (ST 259:2008) 625/50, 525/59 |

| | |
|---|---|
| Connectors | 4 Rear BNC 75 Ohm (input or output) |
| Return Loss | >15 dB, 5-1485 MHz >10 dB, 1485-2970 MHz |
| Cable Equalization for Belden 1694A type cable: | 0-80 meters 2.97 Gb/s, 0 to 100 meters (1.485 Gb/s), 0 to 250 meters (270 Mb/s) |
| Chassis Compatibility | DigiLink 4360x, DL4000 InfinityLink IL6000 chassis |

10G Network Interface (Trunk)

| | |
|--------------------|-------------------|
| Type | Ethernet SFP+ (2) |
| Optical Connectors | LC |
| Format | 10 Gig-E |

Gig E User Data Interface

| | |
|--------------|----------------------|
| External SFP | (4) Optical or RJ-45 |
| Data Rates | 10/100/1000 Ethernet |

Regulatory Conformance

| | |
|-------------|---|
| Compliance: | CSA60950, IEC/EN60950, EN55022 FCC Part 15 (Class A), CISPR 22 |
|-------------|---|



UPDATED 03/8/2019
All specifications subject to change without notice. ©2019



Information

| Model | Description | Part # |
|---------------------|--|---------------|
| SMART – J2K | SMART Media Delivery Platform w/JPEG2000 | 390-008454-XX |
| SFP/SFP+Options | See SFP/SFP+/XFP compatibility chart | |
| Monitor Cable Model | Description | Part # |
| DL100HDMC-72 | Monitor Cable, 75-Ohm HD-BNCto BNC | 396-001010-72 |



SMART front panel video and data I/O and status LEDs



SMART rear panel video and data I/O and status LEDs

AR206-008454-XX_Y

Sales



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