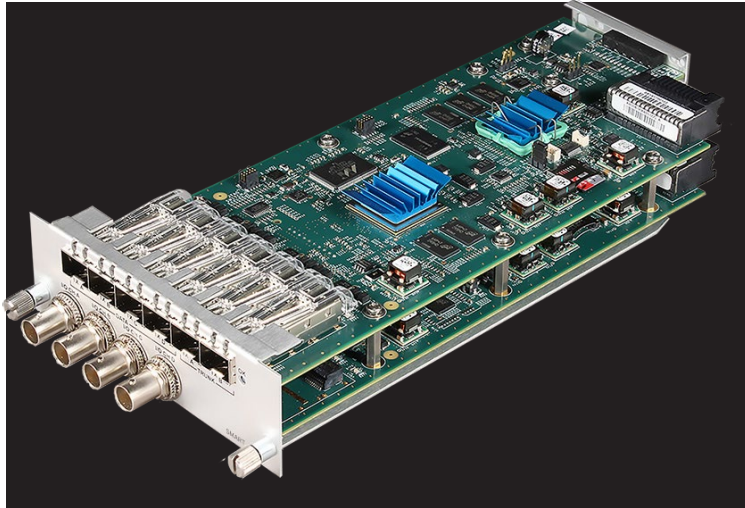




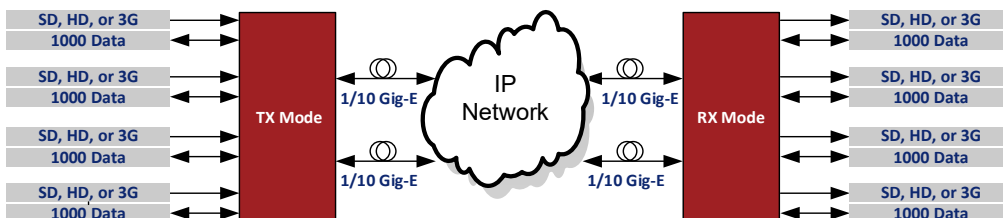
SMART Media Delivery Platform™ JPEG2000 Over IP Encoder - Decoder



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 and four 1GigE data ports bridged to 1 or 10GigE uplinks

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 1 or 10 Gig Ethernet trunks. Four user data Gig-E ports can be independently bridged (separate user defined VLAN's) across 1 or 10 Gig Ethernet trunk ports.

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
- Four 1 GigE data ports bridged to 1 or 10GigE uplinks
- Contribution Quality Transport of 1080p, 1080i, 720p and SD-SDI
- 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
- VLAN tagging capabilities
- Supports unicast or multicast

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 Forward Error Correction (FEC) and buffering settings

- Selectable transmitter row and column FEC settings
- Selectable receiver buffering
- Designed to withstand burst outages in excess of 3 milliseconds
- 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)
- Electrical SFP+

Externally accessible SFP transceivers for 1G user or trunk interfaces

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

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 encoders or decoders 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+ Optical and Electrical (2)
Optical Connectors	LC
Format	10 Gig-E

1 Gig E Interfaces (Data and Trunk)

External SFP	Optical or RJ-45 (user interface)
Data Rates	1000 Ethernet

Regulatory Conformance

Compliance:	CSA 60950, IEC/EN60950, EN55022 FCC Part 15 (Class A), CISPR 22
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UPDATED 08/12/2020
All specifications subject to change without notice. ©2020

Ordering Information

Model	Description	Part #
SMART – J2K	SMART Media Delivery Platform w/JPEG2000	398-008454-01

SFP/SFP+ Options *See SFP/SFP+/XFP compatibility chart*

Monitor Cable Model	Description	Part #
DL100HDMC-72	Monitor Cable, 75-Ohm HD-BNC to BNC	398-001010-72



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



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

AR206-008454-01_D

Sales



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