VITEC

T9261–EB

Direct-To-Web Encoder

Ideally designed for broadcast and professional encoding, T9261-EB provides versatile Direct-to-Web / OTT streaming over both public and private networks. T9261-EB is available either as a portable appliance perfectly suited for field use or as a 1-slot openGear card for easy integration within production studios and broadcast facilities.
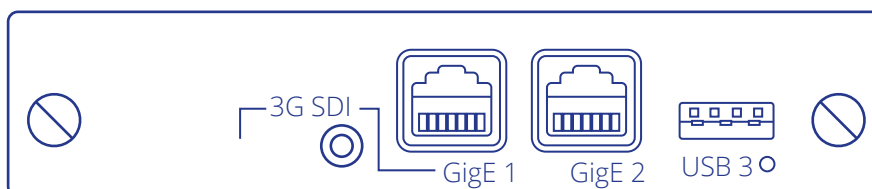
T9261-EB's unique one to many routing support redefines the streaming standards of a compact value encoder. Once encoded, each payload can be concurrently routed to multiple destinations, mixing any of the streaming protocols supported by the T9261-EB compression platform. With the rare ability to encode two streams from a single SDI input, streams can be encoded in High Definition and Standard Definition (NTSC/PAL) at both low and high bit rates. Each independent encoder configuration allows unique frame size, frame rate, video and audio codec plus ancillary data configuration. IP stream protocol support encompasses multicast or unicast UDP/RTP, RTMP, TCP, HLS, SRT, Zixi Feeder, FASP and file.

One 3G/HD-SDI input delivers uncompressed 1080p/1080i/720P, NTSC or PAL video and embedded audio to the encoders. Video codec support includes 1080p H.264 and 1080i MPEG-2. Ancillary data support for closed captions and SCTE104[2] cue messages embedded in SDI.

[2] SCTE 104 is optional
S = Standard O = Optional

Rear Panel Interface

3G SDI   GigE 1   GigE 2   USB 3

Easy and accessible management and monitoring of the T9261-EB is facilitated via the Web Server

Output Stream Protocols	Feature	Notes
UDP/RTP Unicast/ Multicast	S	UDP/RTP unicast or multicast support
RTMP, RTMPS, TCP	S	RTMP, RTMPS and TCP client
HLS	S	Support for HLS segmentation and manifest generation, webDAV/MediaPackage output
SRT	S	SRT public internet resilient streaming protocol
Zixi	S	Zixi public internet resilient streaming protocol. For use with Zixi Broadcaster/Zen cloud services. Zixi link point to point link is not supported on T-21 devices
FASP	O	Aspera (IBM) public internet resilient streaming protocol

CODEC Video Encode	Feature	Notes
AVC (H.264)		
SD AVC 4:2:0 High	S	Dual encode from single SDI input
HD AVC 4:2:0 High	S	Dual encode from single SDI input
3G AVC 4:2:0 High	S	Single encode from single SDI input
MPEG-2 (H.262)		
SD MPEG-2 4:2:0	S	Dual encode from single SDI input
HD MPEG-2 4:2:0	S	Dual encode from single SDI input
Closed Captions	S	SMPTE 334 carriage of 608 and 708 Captions
SCTE 104	O	SCTE 104 to SCTE 35 cue message carriage

CODEC Audio Encode	Feature	Pairs	Notes
MPEG-1 Layer 2 Audio	S/O	2 or 4	SDI Embedded. Second 2-pairs optional
AAC-LC Stereo (2.0)	S/O	2 or 4	SDI Embedded. Second 2-pairs optional
HE AAC V1.0 Stereo (2.0)	S/O	2 or 4	SDI Embedded. Second 2-pairs optional
HE AAC V2.0 Stereo (2.0)	S/O	2 or 4	SDI Embedded. Second 2-pairs optional

Ancillary/Data	Feature	Notes
Closed Captions	S	SMPTE 334 carriage of 608 and 708 Captions. On Screen Display (open Captions) support
SCTE 104	O	SCTE 104 data extraction from SDI. Conversion to SCTE 35 cue messages

AV Input	Standard	Connector	Notes
3G-SDI	SMPTE 424, 292, 259	HD-BNC Rear	Audio embedded per 272M (259) and 299M (424/292)
BARS	SMPTE RP219 Bars	Internal	Signal generation. SMPTE RP219 Bars or black flat field raster
Slate	PNG	Internal	Full raster 32 bit color PNG graphic overlay
Bug	PNG	Internal	Full raster 32 bit color PNG graphic overlay with transparency for video display
Tones	PCM	Internal	Eight channels of 1K tones (-10, -18, -20 dbFS)
Signal Loss	Fall Back	Internal	Upon loss of SDI input, the internal signal generator will generate bars/tones, overlay a slate with tones, slate with no audio and maintain streaming until SDI signal returns

System	Standard	Connector	Notes
Gigabit 1	802.03	RJ-45/Read	Copper CAT 5/5e/6/6A
Gigabit 2	802.03	RJ-45/Read	Copper CAT 5/5e/6/6A
Power In	12 VDC	TE 2 position plug model 284511-2 included	Full raster 32 bit color PNG graphic overlay
USB2	USB2	USB 2 Standard-A receptacle/Front	USB 2 complaint. Data mount and Firmware load
USB3	USB3	USB 3 Standard-A receptacle/Front	
Terminal	VT100	mini USB Type B/Front	Serial Terminal at 115, 200, 8, 1, N
Power Use		12 Watts maximum	
Physical		- Portable: 1.02" H x 5.09" W x 10.125" D (26 mm H x 129 mm W x 257 mm D) - openGear: 1-slot openGear card for up to 20 cards within a 2RU openGear chassis	

Ordering information

00204 - T9261-EB - Portable H.264 Encoder

00207 - T9261-EB OG - Portable H.264 Encoder openGear Card (does not include the rear module - 00208)

00208 - T9261-OG-RM - openGear Rear Module T9261-OG cards

00206 - SCTE-104 to SCTE-35 license for T9261 encoders

00217 - 1RU Rackmount Shelf for T9261 Portable Appliances (up to 3 appliances per rack)