



T9261-E

OTT Streaming Media Encoder



The T9261-E is an industry-leading live OTT streaming media encoder. The encoder supports High Definition and Standard Definition (NTSC/PAL) video encoding.

IP stream protocol support includes multicast or unicast UDP/RTP, SRT, Zixi Feeder, RTMP, HLS, and TCP. The T9261-E can encode two streams from its single SDI input. Each encoder can use a different protocol, CODEC and deliver unique frame size, frame rate and bit rate services to either Gigabit Ethernet interface.

Boasting two independent Gigabit Ethernet ports, the T9261-E is ideal for use across private and public networks. Network security is a priority at T-21. All T-21 devices include the latest network security patches, HTTPS web server plus user options to disable SSH, SAMBA and PING. OpenVPN is included and can be used without the need for an optional VPN appliance. T-21 offers ongoing patches that include network security updates with new firmware features included for a modestly priced SLA¹.

The T9261-E is designed for broadcast and professional encoding and delivery over public or private networks. One 3G HD-SDI input delivers uncompressed 1080P/1080i/720P, NTSC or PAL video and embedded audio to the encoders. The T9261-E is optimized to encode at very low and very high bit-rates. Video CODECs include 1080P AVC (H264) and 1080i MPEG 2. Ancillary data support for closed captions and SCTE104² cue messages embedded in SDI.

Audio encode support for up to four PIDs or 8-channels³. Audio CODEC support includes MPEG 1/2, AAC-LC/HE with optional Dolby Digital encode.

Managing and monitoring the T9261-D is facilitated via the Web Server, SNMP and REST APIs.

¹ Service Level Agreement available per device per year after year one. Year one SLA is included.

² SCTE 104 is optional

³ Two audio PID decode standard. Two audio PID decode optional.

S = Standard O=Optional



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Output Stream Protocols	Notes
UDP/RTP Unicast/Multicast	UDP/RTP unicast or multicast support
RTMP, TCP	RTMP client and TCP client
HLS	Support for HLS segmentation and manifest generation
SRT	SRT Caller, Listener and Rendezvous support for public internet links
Zixi	Zixi public internet transport protocol for use with Zixi Broadcaster/Zen cloud services. Zixi link point to point is not supported on T-21 devices.

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 and HDMI Embedded. Second 2-pairs optional.
AAC-LC Stereo (2.0)	S/O	2 or 4	SDI and HDMI Embedded. Second 2-pairs optional.
HE AAC V1.0 Stereo (2.0)	S/O	2 or 4	SDI and HDMI Embedded. Second 2-pairs optional.
HE AAC V2.0 Stereo (2.0)	S/O	2 or 4	SDI and HDMI Embedded. Second 2-pairs optional.
Dolby Digital Encode	O	2	SDI and HDMI Embedded. Second 2-pairs optional.

AV Input	Specification	Connector	Notes
3G-SDI	SMPTE 424, 292, 259	HD-BNC Rear	Audio embedded per 272M (259) and 299M (424/292).



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System	Standard	Connector	Notes
Gigabit 1	802.03	RJ-45/Rear	Copper CAT 5/5e/6/6A
Gigabit 2	802.03	RJ-45/Rear	Copper CAT 5/5e/6/6A.
Terminal	VT100	mini USB Type B/Front	Serial Terminal at 115,200, 8, 1, N.
USB2	USB 2	USB 2 Standard-A receptacle/Front	USB 2 compliant. Data mount and Firmware load.
USB3	USB 3	USB 3 Standard-A receptacle/Rear	USB 3 compliant. Data mount and Firmware upgrade.
PCIe	PCI Express	52 pin edge connector	Mini PCIe card slot (Host) with USB
mSATA	min-SATA	52 pin edge connector	Mini SATA card slot for optional SSD disk
Power In	12 VDC	TE 2 position plug model 284511-2 included.	
Power Use	12 Watts maximum while decoding HEVC UHD		
Physical	5.09 Inches (129 mm) Wide, 10.125 Inches (257 mm) Deep, 1.02 inches (26 mm) Tall		

The T9261-E is available as a single slot Ross openGear card. Up to 20 T9261-OGE Encoders can be loaded into a single 2RU openGear chassis.

T9261-D Optional rack shelf



S = Standard O=Optional