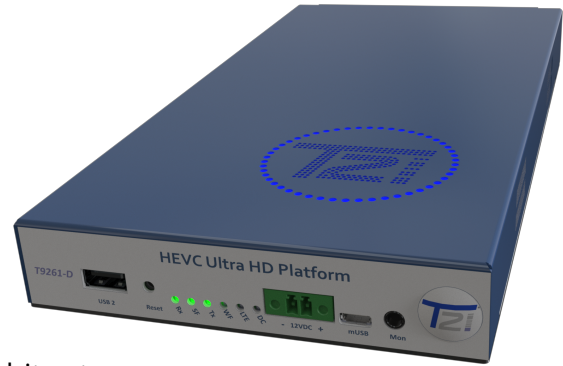




T9261-D

OTT Streaming Media Decoder

The T9261-D is T-21's world-class OTT streaming media decoder leading the industry in portability, fan-less power efficiency and return on investment. With the capacity to support very high bit-rate Ultra High Definition (UHD) 2160P HEVC¹, 1080P AVC, 1080i MPEG2, and optional 2160P HEVC (H.265), the versatile T9261-D maintains the ability to work with a variety of encoders.



Network security is an utmost priority to T-21, and we ensure that all T-21 devices include the latest network security patches, HTTPS web server and user options to disable SSH, SAMBA and PING. The T9261-D boasts two independent Gigabit Ethernet ports, making it ideal for safe streaming across both private and public networks. Integrated openVPN ensures secure connections without supplemental hardware. In addition, T-21 offers ongoing patches that include network security updates with new firmware features included for a modestly priced SLA².

Our abundant amount of IP streaming protocol support includes source specific UDP/RTP with IGMP v3, SRT, Zixi, RTMP, RTSP, HLS, DASH, TCP with file capture and playback from disk. Network Protocol Translation provides input to output translation from one protocol to the other, further solidifying the T9261-D's adaptability.

Optimally designed for video and audio support for broadcast and professional decoding, the T9261-D incorporates video interfaces containing two mirrored 3G HD-SDI outputs on HDBNC and one HDMI 1.4 output. Ancillary data support for closed captions with OSD open captions and SDI embedding is a standard feature. Audio decode support is available with the T9261-D for up to a shocking four PIDs or eight channels³. Audio CODEC support includes MPEG Layer 1/2/3, AAC-LC/HE with optional Dolby Digital decode with passthrough to HDMI and HD-SDI embedding.

¹ HEVC Decoding requires an optional software key

² Service Level Agreement available per device per year after year one. Year one SLA is included.

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



Easy and accessible management and monitoring of the T9261-D is facilitated via the Web Server, SNMP and REST APIs.

Input Source Stream Protocols	Notes
UDP/RTP Unicast/Multicast	UDP/RTP unicast or multicast support with DVB or MPEG service section.
IGMP 3.0	IGMP 3 Source Specific Multicast with included and exclude support
RTMP, RTSP, TCP	RTMP client/server, RTSP client and TCP client/server
HLS/DASH	Support for HLS and MPEG DASH URL decoding
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.
File/SATA Drive	TS, PES, ES, MOV, BMFF, MKV file playback. (mSATA hard drive not included)

CODEC Video Decode	Feature	Notes
H.265 HEVC (H.265)		
8/10 bit SD HEVC 4:2:0	O	Single decode via HDMI or SDI.
8/10 bit 3G HEVC 4:2:0	O	Single decode via HDMI or SDI.
8/10 bit 4K (Ultra HD)	O	Single decode via HDMI or SDI. SDI up to 1080P
AVC (H.264)		
SD AVC 4:2:0 High	S	Single decode via HDMI or SDI.
HD AVC 4:2:0 High	S	Single decode via HDMI or SDI.
3G AVC 4:2:0 High	S	Single decode via HDMI or SDI.
MPEG 2 9H.262)		
SD MPEG 2 4:2:0	S	Single decode via HDMI or SDI.
HD MPEG 2 4:2:0	S	Single decode via HDMI or SDI.

CODEC Audio Decode	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.
AAC 5.1 Audio Decoding	S	1	SDI and HDMI Embedded.
Dolby Digital Decode	O	2	SDI and HDMI Embedded. Second 2-pairs optional.
Dolby Digital Passthrough	S	1	SDI and HDMI Embedded.

S = Standard O=Optional

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Ancillary/Data	Feature	Notes
Closed Captions	S	SMPTE 334 carriage of 608 and 708 Captions. On Screen Display (open Captions) support.
SCTE 35	O	Detection and logging of SCTE 35 cue messages. Slate overlay during break.

AV Outputs	Number	Specification	Connector	Notes
HDMI	1	HDMI 1.4b	HDMI Rear	4k frame rates of 50 or 60 only support 8-bit color over HDMI. All other HDMI frame size and rates support 10-bit color over HDMI.
3G-SDI	2	SMPTE 424, 292, 259	HD-BNC Rear	Audio embedded per 272M (259) and 299M (424/292). Only active in 2K and lower frame sizes.
Analog	1	Analog Audio monitor	3.5 mm 4 pole jack/Front	Analog stereo audio using 3.5 mm jack. Only active in 1080P and lower frame sizes.

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		

T9261-D Optional rack shelf



The T9261-D is available as a single slot Ross openGear™ card. Up to 20 T9261-OG Decoders can be loaded into a single 2RU openGear chassis.

S = Standard O=Optional