

TITAN™ MPEG Video Encoder

Applications

- Sports contribution
- News contribution
- Program distribution
- Program backhaul over fiber

Features

- Best in class compression performance
- MPEG-2 and MPEG-4 video encoding supported
- SD (576i and 480i)
- HD (1080i, 720p)
- Analog and digital video inputs
- MPEG Layer II, AAC-LC, HE-AAC, audio encoding
- Up to 8 audio pairs supported
- Compressed audio pass-through modes
- Analog, digital and embedded audio inputs
- Advanced modulator available internally (DVB-S, DVB-S2, QPSK, 8PSK, 16QAM and 16APSK)
- ASI and Ethernet outputs
- Software upgradeable
- Full Web browser control
- Full front panel control
- 70 MHz and L-band modulator outputs as option
- SENSIO® Hi-Fi 3D input option

The TITAN MPEG Video Encoder provides ultimate flexibility in an extremely cost effective package.

The TITAN MPEG Video Encoder allows you to custom configure your encoder to meet your exact broadcast needs. Simple software keys allow for adding features with little out of service time.

Control Options

The TITAN MPEG Video Encoder comes with multiple control options including SNMP for full network management, Web browser access for simple remote control and a fully functional front panel.

Upgrade Options

Most functions on the TITAN MPEG Video Encoder are software upgradeable. The encoder can initially start as an SD encoder, and cost effectively upgrade to HD or even 3D encoding as the applications change.

Video Options

SD or HD, MPEG-2 or MPEG-4, digital or analog can be selected to match the needs of the application.

Audio Options

Analog, digital or embedded, MPEG, AAC-LC, HE-AAC, Linear PCM or SMPTE-202 may be selected to suit the application requirements.

Multiple Output Options

With dual ASI and built-in Ethernet interfaces along with an auxiliary slot for a modulator, the TITAN MPEG Video Encoder can be configured for multiple applications.

TECHNICAL SPECIFICATIONS—TITAN MPEG Video Encoder

MODEL	DESCRIPTION
Base Unit	<ul style="list-style-type: none"> Analog Composite (CVBS) SD Video Input Digital HD-SDI/SDI Video Input - SMPTE 259M or 292M Analog (XLR), Digital (AES-EBU on BNC) and Embedded Audio Inputs MPEG-1 Layer II Audio Compression Audio pass-through for Dolby® E or Linear PCM 2 x Audio Pair 2 x ASI Output 1 x Ethernet Output (MPEG Transport Stream over IP)
SOFTWARE LICENSE CORE FEATURES	
Video Format (Select One or Both)	<ul style="list-style-type: none"> SD (576i and 480i) HD (1080i and 720p)
Video Compression (Select at Least One)	<ul style="list-style-type: none"> MPEG-2 4:2:0 MPEG-2 4:2:2 + 4:2:0 MPEG-4 4:2:0
HARDWARE OPTIONAL FEATURES	
3D Input Interface Module	
DVB-S Modulator Module - IF	
DVB-S Modulator Module - IF + L-band	
SOFTWARE LICENSE OPTIONAL FEATURES	
2 additional Audio Pairs (up to 8 pairs maximum)	
AAC-LC Advanced Audio Compression	
HE-AAC Advanced Audio Compression	
BISS Encryption	
DVB-S2 support on Modulator Modules	

VIDEO/AUDIO CAPABILITIES	
Video Input	<ul style="list-style-type: none"> Analog SD (NTSC and PAL) Digital SD (SMPTE 259M) Digital HD (SMPTE 292M)
Audio Input	<ul style="list-style-type: none"> Analog: XLR — Up to 4 pairs Digital: AES/EBU on BNC — Up to 4 pairs Embedded: SMPTE 272M — Up to 8 pairs
Video Compression	<ul style="list-style-type: none"> MPEG-2 4:2:0 MP@ML/HL/HP MPEG-2 4:2:2 HP@ML/HL MPEG-4 4:2:0 (H.264 MP/HP to L4.1) All Video Compression (100 kb/s - 40 Mb/s)
Audio Compression	<ul style="list-style-type: none"> MPEG-1 Layer II (32, 48, 64, 80, 96, 112, 128, 160, 192, 224, 256, 320, 384 kb/s) AAC-LC (16-576 kb/s) ACC-HE V1 and V2 (16-128 kb/s)
Audio Pass	SMPTE 302M
VBI Support	Embedded Closed Captioning EIA608 and 708
ASI Output	2 x DVB-ASI on BNC (200 kb/s—108 mb/s)
Ethernet Output	100/1000 Base-T (MPEG TS over IP)
Satellite Output (Optional)	<ul style="list-style-type: none"> IF 70/140 MHz — 0 to -25 dBm L-band 950 to 2050 MHz — High Stability 1 to 68 MSymbol/s DVB-S (QPSK) DVB-DSNG (8PSK and 16QAM) - Option DVB-S2 (QPSK, 8PSK, 16APSK) - Option



STATUS AND CONTROL INTERFACES

- Integrated Web browser
- SNMP V2C
- Front panel with full control

CONDITIONAL ACCESS

BISS Mode 0,1 and E

POWER REQUIREMENTS

Supply Voltage	100 to 240 VAC, 50 or 60 Hz
Power Consumption	60 Watts maximum

PHYSICAL PARAMETERS

Chassis	1RU rackmount
Dimensions (H, W, D)	4.5 cm x 48 cm x 45.7 cm (1.75" x 19" x 18")
Weight	5.5 kg (12 lbs.)

ENVIRONMENTAL CONDITIONS

Operating Temperature	0° to 50° C (32° to 122° F)
Storage Temperature	-20° to 70° C (-4° to 158° F)
Humidity	Up to 90% humidity

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