TITAN® Edge Encoder is a multi-channels modular encoder, baseband as SDIoIP input, to any outputs, providing pristine video quality at low-latency profile.

TITAN Edge Encoder is the high-density contribution solution for 4K and HD in HEVC 4:2:2 12 bits as in H264 4:2:2 10 bits

Based on TITAN’s software modular suite and leveraging full COTS approach, TITAN Edge is a versatile solution for operations running on-premises, off-premises or a combination of the two: 4K, multi HD encode, Low Latency, IP/ASI/Modulator output.

Implementing state-of-the-art SMPTE 2022/2110 standards, TITAN Edge Encoder is the first professional cloud native low latency solution enabling full IP video operations in the cloud.

In addition, TITAN Edge Encoder features interfaces to standard PCIe boards to support any type of use-case and build the most adapted and efficient solution for on-premises contribution.

VALUE-ADDED BENEFITS

Lower OPEX
High density with high quality of service

Modularity
Full flexibility and scalability

Software based
Future-proof and high ROI

Industry Grade
Smooth operations based on proven interoperabilities

KEY FEATURES

- SD/HD/UHD HEVC, H264, MPEG2
- Scalability to UHD 12-bit 4:2:2 codec solution
- BISS-CA encryption system support
- Low latency mode
- Confidence Audio / Video input monitoring
- Encoded, transcoded & statmuxed output
- Service filtering with remuxed output
- On-premises/off-premises solution
**VIDEO**

**Video Compression**
- HEVC, Main 12, Main 4:2:2 10, Main 4:2:2 12, 120 Mbps max
- H.264 (4:2:0/4:2:2 8-bit, 4:2:0/4:2:2 10-bit), 120 Mbps max
- MPEG-2 (4:2:0/4:2:2 8-bit), 80 Mbps max
- MPEG-4 AVC – I mode

**Video Processing**
- CABAC, CAVLC, MBAFF, PAFF
- Resize & Noise Reduction filters
- Psychovisual Filter Enhancements
- Interoperable Ultra Low latency filters
- Input format detection **
- Auto input format configuration mode **
- Seamless Channel Insertion (SCI) **
- Logo insertion – Emulated video output

**Ancillary data**
- AFD, WSS, VPS, VPI, VITC, ATC, CC,
- DVB Teletext, SMPTE2031, OP47,
- SCTE35 insertion via SCTE104 triggers

**AUDI**

**Audio Compression**
- MPEG1-L2, MPEG-2/MPEG-4 AAC-LC, AAC-HEv1/HEv2 encode
- DD/DD+ encode, Dolby E decode
- Dolby Digital E, DD/DD+, AES-302M pass-through

**SCRAMBLING**

**BISS 1/E (Tech 3292.rev.2 and EBU R139)**
**BISS-CA (Tech 3292-1)**

**ARQ SOLUTION**

**Zixi feeder** - push and pull modes
**SRT feeder** - caller, listener & rendez-vous modes
**RIST feeder**

**FEATURES, CONFIGURATION & MANAGEMENT**

**IP interface**

**For Server Xr2, R640 / R6415 / R6525**
Confidence Audio/video monitoring with LCD Menus
6-keys keyboard for input & navigation
Presets import and export from USB *
TS capture download from USB slot *
First ISO install from USB
Serviceable Air Filters

**REAR PANEL**

**IP interface**

- 2 x 10GE - Refer to the server used
- 2 x QSFP28 with Mellanox Connect-X5 board (25Gbps)

**ASI interface**

- Up to 8 x DVB-ASI reversible (input or output) ***
- SDI interface
- Up to 8 x 3G-SDI (SMPTE-424M)
- Up to 2 x 12G-SDI (SMPTE-2082) ***

**RF interface**

- Main RF Output 1 L-Band / IF
- Monitoring RF Output
- External 10Mhz Reference Input / Output

**CONTACT YOUR SALE REPRESENTATIVE FOR THE DETAILED LIST OF FEATURES**

*  Contact your sales representative for the detailed list of features
** Contact factory for availability
*** Refer to the PCIe board used