TITAN Edge Decoder is a multi-channels/multi-CODEC IRD, with easy setup, fast signal lock and industry-grade input support.

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: High HD density, 4K, Satellite/Terrestrial/IP reception, Over-the-Air or scrambled sources, Gateway, IP Turnaround.

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

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

The TITAN Edge Decoder features advanced ARQ solutions with failover of any input type to be descrambled, decoded or forwarded to any output type making it a comprehensive solution to contribute from/to the cloud.

**VALUE-ADDED BENEFITS**

**LOW LATENCY 4K PROFESSIONAL INTEGRATED RECEIVER DECODER HEVC, H264, MPEG2**

TITAN Edge Decoder features:

- SD/HD/UHD HEVC, H264, MPEG2
- Scalability to UHD 12-bit 4:2:2 codec solution
- BISS-CA decryption system support
- Low latency mode
- Confidence Audio / Video input monitoring
- DVB-Common Interface option
- Decoder output up to 12G-SDI and SDIoIP
- Input Service filtering
- Contribution over Internet support
- On-premises/off-premises solution

**KEY FEATURES**

- 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
**VIDEO**

Web Graphic User Interface (create, delete and edit decoding channels)
Video and Audio Confidence monitoring on front panel and web GUI
64 Presets configurations memory slots
In-band and Out-Of-Band Management
SNMP (MIB v2c) with remote SNMP supervisor (alarms & traps)
REST API (documented through Open API v3.0)
JSON Configuration export/import
Firmware/Licenses/Configuration Update – Over The Air (ETSI 102-006)
MPEG2-TS over UDP/RTP (Unicast/Multicast)
FEC ProMPEG CoP3r2
Failover Any to Any & SMPTE 2022-7
Carrier ID from the NIT
PID filtering demux
Multi-Protocol Encapsulation
Remote Syslog, VPN support, IGMPv3 support

**DEMODULATION**

Multi RF demodulator with selectable RF inputs
L-Band input, C-band, Ku-band support
Frequency Range: 950-2150 MHz (L-Band)
C/N, BeR, C/N margin, Link margin monitoring ***
Automatic, Manual DVB-S/S2/S2x selection ***
Adjustable Search Range ***
Support VCM, CCM *
DVB-S (EN 300421)
DVB-S (DSNG EN 301210-1.1.1)
DVB-S2 (EN 302307-1) / DVB-S2x (EN 302307-2)

**AUDIO**

MPEG-1 Layer II, AAC-LC, AAC-HEv1/v2 decode
Dolby E, AES302M pass through
DD / DD+ decode
5.1 to stereo downmix
Audio/Video delay +/- 500ms
Audio decoded
Up to 16 mono channels on SDI
Audio Pass through
Up to 16 mono channels SDI

**SCRAMBLING**

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

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**ARQ SOLUTION**

Zixi receiver - push and pull modes
SRT receiver - caller, listener and rendez-vous modes
RIST receiver *
RTMP receiver *

**FEATURES, CONFIGURATION & MANAGEMENT**

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**FRONT PANEL**

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
CAM Module in 2.5” HDD Dell housing (up to 8 in 1-RU)*

**REAR PANEL**

IP interface
Minimum of 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) ***
CAM interface
2 x DVB-CI CAM Module per PCIe board ***
Audio interface
SDI Embedded up to 16 mono channels
SDI interface
Up to 8 x 3G-SDI (SMPTE-424M) ***
Up to 2 x 12G-SDI (SMPTE-2082) ***
Synchronization
1 x Genlock connector - BlackBurst / TriLevel ***
RF interface
4 x RF connectors / 8 demodulators per PCIe board ***
RF input level: -65 dBm to -25 dBm

**DESCRAMLING**

BISS O/1/E (Tech 3292-rev.2 and EBU R139)
BISS-CA (Tech 3292-1) *
NexGuard Network ID SDI forensic watermarking insertion *
DVB-CI Common Interface Hardware option to descramble Multi services descrambling included
MPTS with support of major CAS vendors: Conax, Irdeto, NDS, Viaccess

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