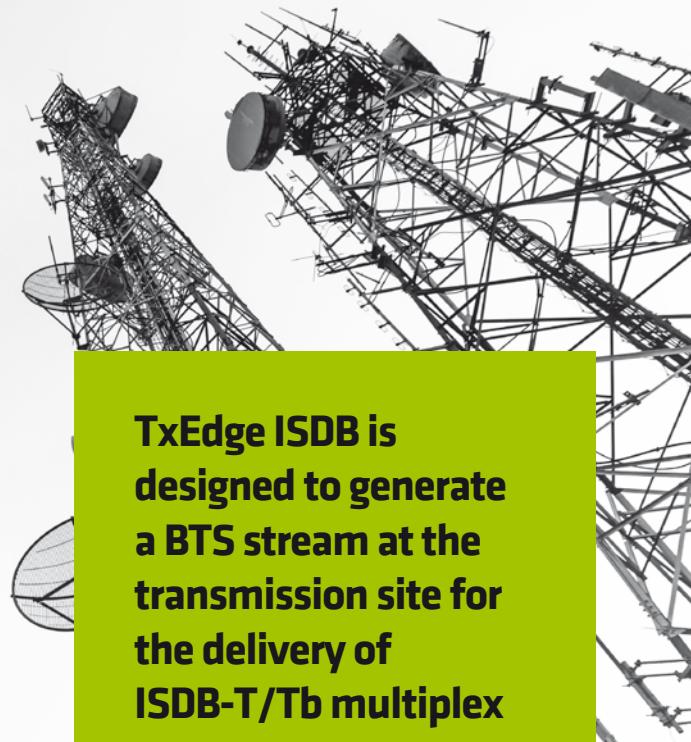


TxEdge ISDB

Local BTS generation for ISDB-T/Tb



TxEdge ISDB is designed to generate a BTS stream at the transmission site for the delivery of ISDB-T/Tb multiplex over MFN or SFN networks.

BTS Generation

Operating at the transmission site prior to the ISDB-T/Tb transmitter, the TxEdge aims at generating a BTS stream from a MPEG-2 TS (SPTS/MPTS). It can receive an incoming TS and generates IIP packet with TMCC data and outputs a BTS stream for the ISDB-T/Tb transmitter.

MFN and SFN Compliant

By default, the TxEdge is designed to deliver a local BTS stream for Multiple Frequency Networks (MFN) operation. It can support Single Frequency Network (SFN) broadcasting with OneBeam option. Based on a deterministic approach, all TxEdge will deliver the same content on the same frequency at the same time, to create an SFN cell.

BTS Decompression

The TxEdge embeds the decompression feature, upon reception of a compressed BTS coming either from the SmartGate, or from any equipment generating a compressed BTS, it will perform the decompression to deliver a BTS to the modulator with the expected bitrate.

DTH and ISDB-Tb Combination

With OneBeam option, a standard MPEG-2 transport stream is distributed over satellite to optimize the satellite bandwidth by delivering only useful information providing significant cost savings. Locally, the TxEdge generates the deterministic BTS stream based on ISDB metadata generated by the SmartGate prior the satellite distribution.

Delivering Differentiated Content

The TxEdge allows the filtering and remultiplexing of incoming services. With its dual inputs feature, the TxEdge can remultiplex national content with content coming from a regional Head-End. It updates SI information such as the service name, virtual channel number to adapt the information from the DTH stream to the ISDB-T/Tb Broadcasting.

Applications

- ISDB-T/Tb broadcasting
- BTS Decompression
- SFN broadcasting support
- Regionalization support
- Local Remultiplexing
- Use existing DTH services to build ISDB multiplex
- Emergency Warning

Benefits

- Satellite bandwidth optimization with OneBeam
- Optimize frequencies use with SFN
- Reduce CAPEX : Satellite input integrated
- Running in High Density chassis (HDc):
 - to allow multiple SmartGate in 1U
 - to combine with ASIIPGuard, IPGuard ...

