

T2Edge

DVB-T2 Local Inserter



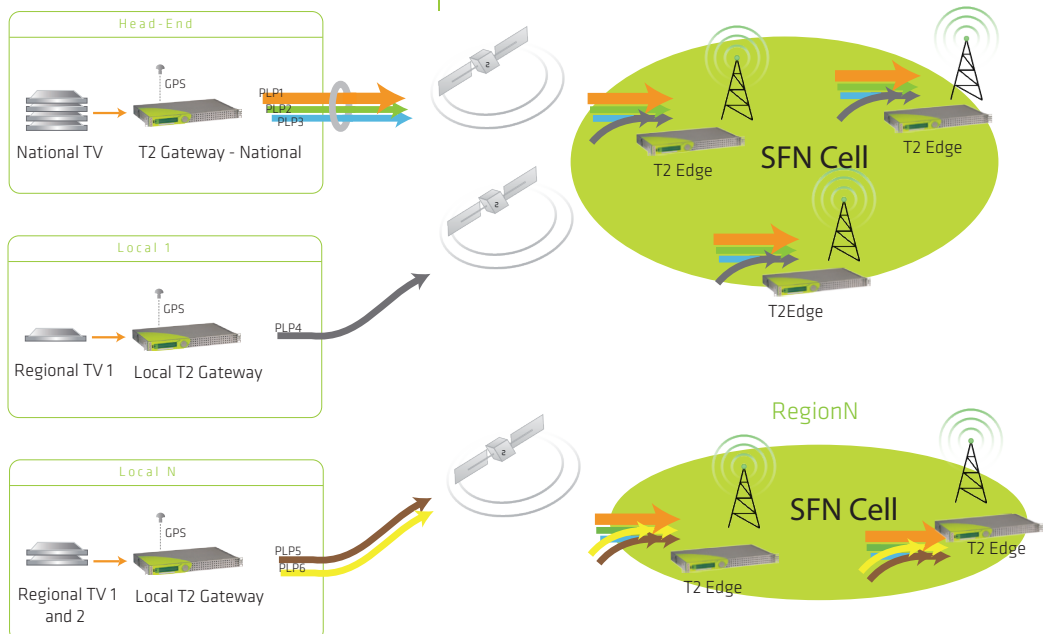
T2Edge is a standalone and standard-based solution that enables the delivery of DVB-T2 regional or local services over SFN networks while saving operating OPEX for the distribution

Running at the transmission site, the **T2Edge** is ENENSYS patented technology that receives two T2-MI streams Multiple PLP compliant and updates or inserts content from the secondary T2-MI stream into the main T2-MI stream to generate a regional DVB-T2 multiplex. National content conveyed over the main T2-MI stream are transmitted only once towards all the regions to **optimize the network distribution bandwidth**.

The **T2Edge** performs the local insertion in a deterministic manner to enable **SFN broadcasting** without requiring an external clock reference. It realizes **DVB-SI processing** to update DVB-SI information related to the newly inserted services. It updates DVB-SI tables such as NIT, SDT and EIT so that DVB-T2 Set-Top-Box receives a well-formed MPEG-2 TS within the different PLP.

The **T2Edge** provides a passtru mechanism that guarantees high availability in any conditions. Even in case of power failure or unit breakdown the primary TV services are still broadcast.

Used with ENENSYS' seamless ASI switch, **ASIGuard**, the **T2Edge** provides an automatic seamless 1+1 redundancy that avoids any service interruption due to transmitter de-synchronization.



Applications

- DVB-T2 service regionalisation
- DVB-T2 ultra-local insertion

Benefits

- Bandwidth optimization to reduce annual OPEX
- Standard-based solution
- Broadcast-grade equipment
- Statistical Multiplexing enabler for local content
- Straight integration into any NMS
- Reuse existing network equipment
- Transmitter agnostic

Characteristics

- Insertion of local content into a national T2 MUX
- DVB-T2 SFN support
- DVB-SI updating
- Bypass mode to guarantee service availability
- Generation of T2-MI packets over ASI
- Easy-to-use web based GUI
- Full SNMPv2 support

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Inputs

Control	2x Fast Ethernet for GUI and SNMP
T2-MI/MPEG2-TS	2x ASI inputs (BNC - 75 ohms) ASI1 : Main T2-MI MPLP stream ASI2: Secondary T2-MI MPLP stream

Featuring

Local insertion	<p>Insertion of regional/local services from a secondary T2-MI stream into a main T2-MI stream at the PLP level (PLP replacement)</p> <p>Insertion of up to 3 different PLP or pools of regional/local services</p>
Standard Compliant	<p>ETSI TS 102 773 V1.2.1</p> <p>ETSI EN 302 755 V1.2.1</p> <p>DVB Bluebook A133</p>
DVB-SI management	Update SI information to reflect the inserted regional/local services
SFN compliant	<p>ENENSYS patented technology</p> <p>Deterministic local TV insertion to enable SFN broadcasting</p> <p>No external reference needed</p>
Service availability	Passthru management to always deliver the main T2-MI stream in case of breakdown
T2-MI output	<p>Generation of standard T2-MI packets over ASI</p> <p>Mirrored output</p>
Monitoring and Supervision	<p>Easy-to-use web based GUI</p> <p>User management</p> <p>Full SNMPv2 support</p>

Outputs

T2-MI/MPEG2-TS	2x Mirrored ASI outputs Bypass mode for service availability
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Physical

Height	44 mm / 1.7 in.
Width	444 mm / 17.48 in.
Depth	274 mm / 10.79 in.
Format	1 RU, width 19"
Power supply	100-240VAC/48V DC (option)
Power consumption	20W



Ordering

T2Edge: Local DVB-T2 inserter

Options

- NN6-In48V : 48 V input instead of 110V/220V
- NN6-DualPower : Redundant power supply



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