



HDc-T2Edge DVB-T2 local adapter



HDc-T2EDGE IS STANDARD-BASED SOLUTION THAT ENABLES THE DELIVERY OF DVB-T2 REGIONAL OR LOCAL SERVICES OVER SFN NETWORKS WHILE SAVING OPERATING OPEX BY OPTIMIZING THE DISTRIBUTION NETWORK BANDWIDTH.

Running at the transmission site, the **HDc-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 is transmitted only once towards all the regions to optimize the network distribution bandwidth.

The **HDc-T2Edge** performs the local insertion in a deterministic manner to enable SFN broadcasting without requiring an external clock reference. It uses PLP substitution™ technology to update PLPs of the main input stream from the secondary stream. Alternatively, the operator can benefit of the PLP aggregation™ technology to insert PLPs into the main input stream from the secondary stream.

The **HDc-T2Edge** realizes DVB-SI processing to update DVB-SI data related to the regional services. It updates DVB-SI tables such as NIT, BAT, SDT, EIT Present/following and EIT Schedule tables so that DVB-T2 receivers can display correct EPG and zapping banner without scanning or restarting.

The **HDc-T2Edge** includes an **Emergency Warning System (EWS)** solution to announce to wide audience any immediate dangers such as earthquakes, floods, tsunami, etc. When it inserts live Emergency Warning Messages into the DVB-T2 /SFN multiplex, receivers turn automatically on the new EWS video without human actions.

Optionally, the **HDc-T2Edge** provides a bypass mechanism to always output a signal in any conditions. In case of power failure, the primary TV services (from the main input stream) are still broadcast.

APPLICATIONS

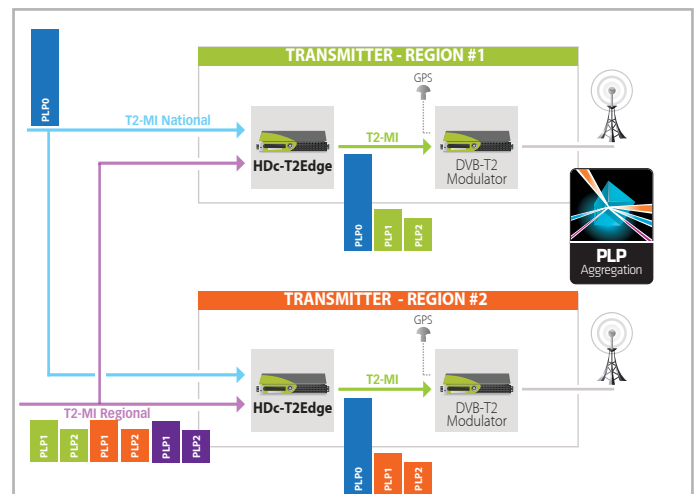
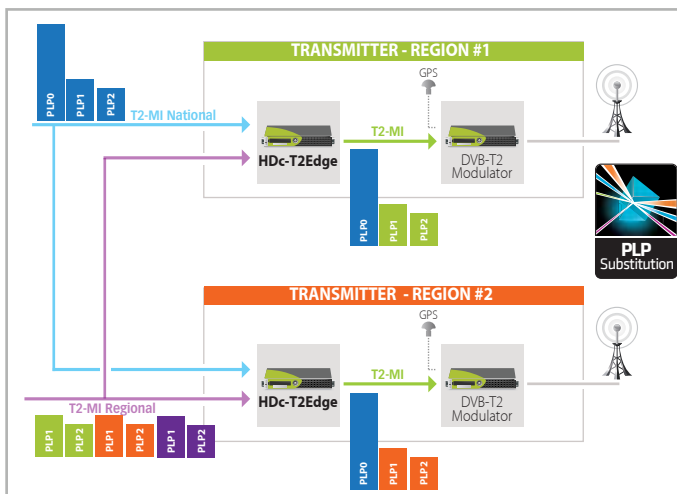
- DVB-T2 service regionalization
- DVB-T2 ultra-local insertion
- DVB-SI data update
- Emergency Warning System (EWS) over DVB-T2

BENEFITS

- Bandwidth optimization to reduce annual OPEX
- EWS solution interoperable with any receivers
- Running in High Density chassis (HDc):
 - to allow multiple T2Edge in 1U
 - to combine with T2EdgeDTH, ASIIPGuard, ...
 - to enable future-proof technology
- Statistical Multiplexing enabler for local content
- Transmitter agnostic
- Used in the DVB-T2 world's largest roll-out

CHARACTERISTICS

- Insertion of local content into a national T2 MUX
- DVB-T2 SFN support
- Based on PLP substitution or PLP aggregation
- DVB-SI updating (NIT, SDT, EIT)
- Insertion of live Emergency Warning messages
- Bypass mode to guarantee service availability
- DTH to T2-MI adapter ready (OneBeam)
- Generation of T2-MI packets over ASI and IP
- Easy-to-use web based GUI
- Full SNMPv2 support





INPUTS

Control	1x Gigabit Ethernet (RJ45) for GUI/SNMP
T2-MI	2x ASI inputs (BNC) 1x Gigabit Ethernet (RJ45) - Option for T2-MI over IP input streams

OUTPUTS

T2-MI	2x mirrored ASI outputs (BNC) 1x Gigabit Ethernet (RJ45) - Option for T2-MI over IP output streams
Availability	Optional Bypass to always output incoming T2-MI over ASI

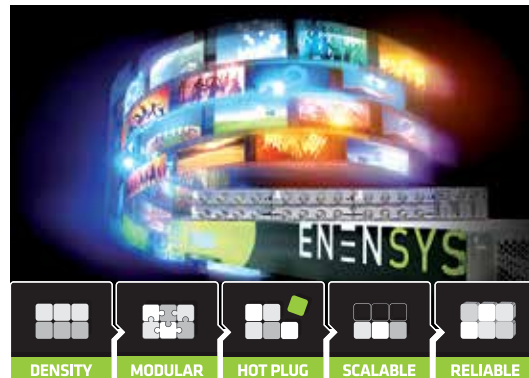
FEATURING

Standards	ETSI TS 102 773 V1.3.1 ETSI EN 302 755 V1.3.1
Local insertion	Insertion of regional or local services at PLP level using PLP substitution™ or PLP aggregation™ technology Insertion of up to 3 different PLP No duplication of national services
DVB-SI management	Update SI information to describe the new regional/local services Update NIT, BAT, SDT, EIT tables



	Insertion of live EWS message instead of all A/V programs Regional EWS insertion (rEWS™)
SFN compliant	Deterministic local TV insertion to enable SFN broadcasting No external reference needed
Service availability	Bypass management to always deliver the main T2-MI stream in case of power failure
Monitoring and Supervision	Easy-to-use web based GUI User management Full SNMPv2 support

HDc MULTI



PHYSICAL

Height	43 mm / 1.69 in.
Width	443,7 mm / 17.46 in.
Depth	322,8 mm / 12,70 in.
Format	1 RU, width 19"
Front Panel	LCD Display and controls - Option
Power supply	100-240V 50/60Hz - 48V DC (option)
Power consumption	20W
Operating temperature	0 to 55°C / 0 to 131°F
Storage temperature	-20 to 70°C / -4 to 158°F
Humidity	0 to 90%, non-condensing

ORDERING CODES

HDc-T2Edge DVB-T2 local adapter with PLP substitution

Options

HDc-Multi	Enable to embed several functions*
HDc-LCD	Display for monitoring & control
OptiPLP	Insertion with PLP aggregation
T2Edge-SIUpdate	Update SI data with new services
T2Edge-IP	IP input and output support
T2Edge-DTH	Upgrade to DTH-T2MI adapter
T2Edge-EWS	EWS solution management
T2Edge-Bypass	Bypass to always output main input
NN6-In48V	48 V input instead of 110V/220V
NN6-In220VRedundant	110V/220V redundant power supply
NN6-In48VRedundant	48V DC redundant power supply

* For managing several switch functions, please contact ENENSYS

