



## 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.**

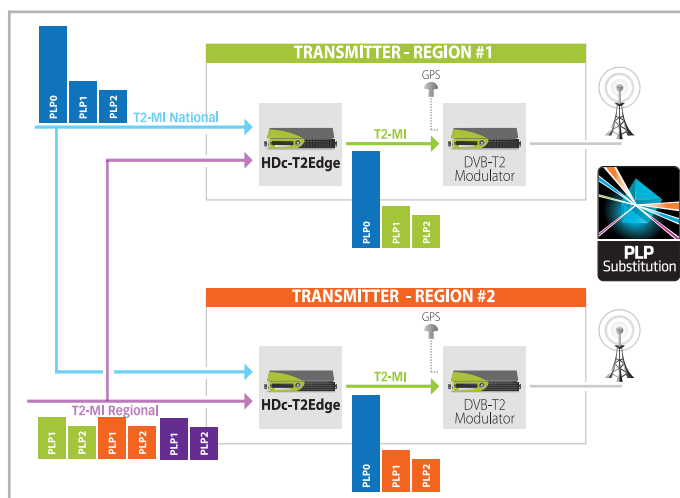
Running at the transmission site, the **HDc-T2Edge** is ENENSYS patented technology that receives two T2-MI streams Multiple PLP compliant and updates or inserts content from the secondary T2-MI stream into the main T2-MI stream to generate a regional DVB-T2 multiplex. National content is transmitted 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

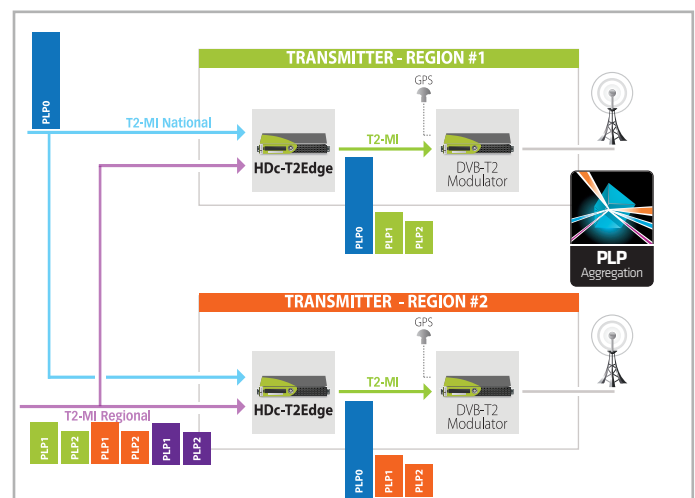


## BENEFITS

- 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



# HDc-T2EDGE DVB-T2 local Adapter



## 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

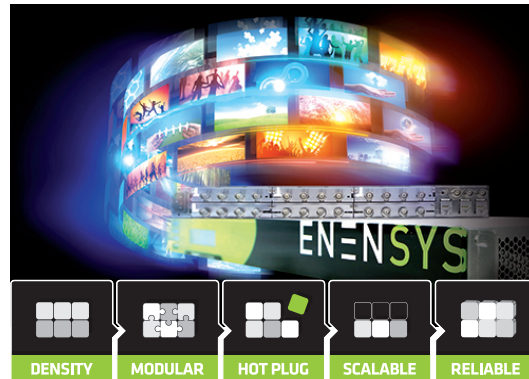
## FEATURING

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

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

\* For managing several switch functions, please contact ENENSYS

