



## T2-MIGen

### T2-MI Generation for local head-end

#### T2-MIGEN IS ENENSYS' T2-MI GENERATOR FOR LOCAL HEAD-END MANAGING FEW TV SERVICES.

**T2-MIGen** is designed to encapsulate into a T2-MI stream one or two TS stemming from a multiplexer or directly from encoders. It outputs the resulting T2-base or T2-lite compliant multiplex through ASI and IP.

The **T2-MIGen** is a cost-effective solution to address the delivery of regional or local TV services from ad-hoc head-ends with limited number of TV services. It perfectly fits into the ENENSYS DVB-T2 regionalization solution: at the transmission site, the **T2Edge** receives one national T2-MI stream and one regional T2-MI stream to build a regional DVB-T2 multiplex mixing national and regional TV services; the **T2-MIGen** generating the regional T2-MI stream whilst the standard DVB-T2 Gateway delivering the national T2-MI stream from the central head-end.

**T2-MIGen** can encapsulate 1 or 2 TS into 1 or 2 PLP. It supports all the DVB-T2 transmission modes and generates T2 timestamp to enable SFN broadcasting over DVB-T2. It can provide built-in GPS reception to avoid using external GPS receiver. The **T2-MIGen** offers DVB-ASI inputs and outputs interfaces by default, IP input and output as an option.

The **T2-MIGen** can also address mobile broadcasting using T2-lite technology. It generates a T2-MI stream for a standalone T2-lite signal with one or two PLPs. It can also declare Future Extension Frame (FEF) to enable the broadcasting of T2-lite signal with T2-base signal in the same RF channel, where each T2 signal has the others in its FEF parts.

#### APPLICATIONS

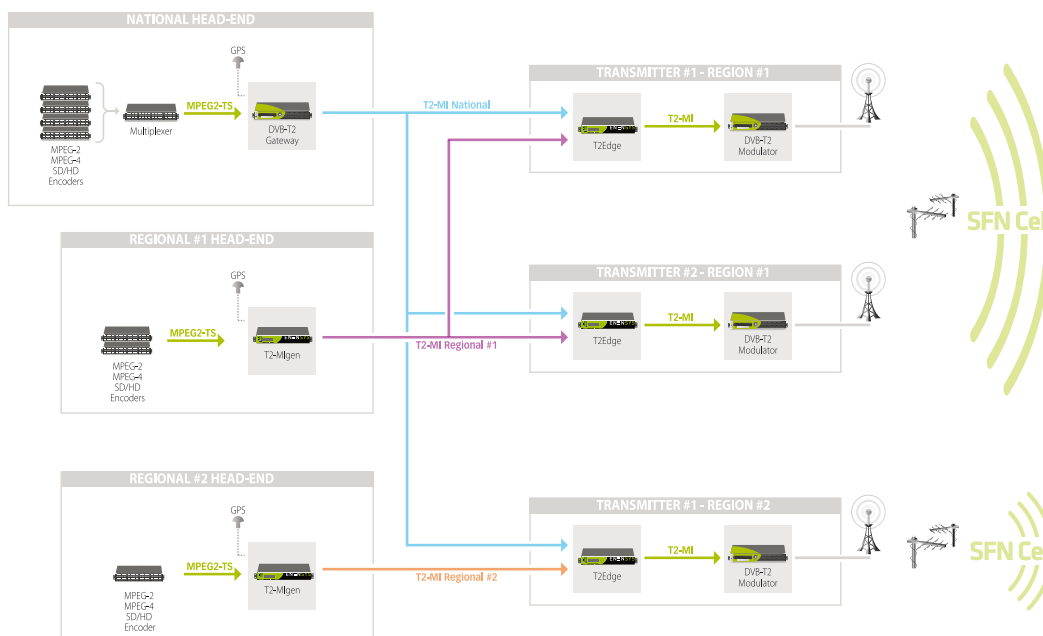
- DVB-T2 Regionalisation
- DVB-T2 SFN/MISO build-up
- DVB-T2 Mobile broadcasting

#### BENEFITS

- Cost effective solution
- Implemented in High Density chassis (HdC):
  - to allow multiple T2-MIGen in 1U
  - to combine with ASIIPGuard for redundancy
  - with hot swappable features
- Quick handling of the DVB-T2 complexity
- Interoperability proven with transmitters
- T2-lite broadcasting for mobile reception
- Straight integration into any NMS

#### CHARACTERISTICS

- Encapsulation into DVB-T2 baseband frame
- Configuration of DVB-T2 modulators
- T2-base support (T2-lite as an option)
- DVB-T2 SFN Adaption with MISO support
- Up to 2 PLP support
- FEF broadcasting (Option)
- Generation of T2-MI packets over ASI and IP
- Validation of DVB-T2 transmission parameters
- Easy-to-use web based GUI
- Full SNMPv2 support





## INPUTS

Control	1x Gigabit Ethernet (RJ45) for GUI/SNMP
MPEG-2 TS	2x ASI (BNC) inputs 1x Gigabit Ethernet (RJ45) for UDP/IP input streams
GPS	1x PPS and 1x 10Mhz inputs 1x TNC for internal GPS

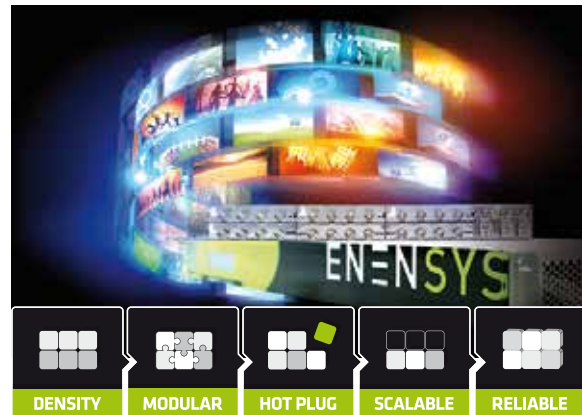
## OUTPUTS

T2-MI/MPEG-2 TS	2x mirrored ASI (BNC) outputs 1x Gigabit Ethernet for RTP/UDP/IP output streams
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## FEATURING

DVB-T2 standard	V1.1.1, V1.2.1, V1.3.1 support T2-base or T2-lite broadcasting
DVB-T2 encapsulation	Encapsulation into BB frames Full support of BB frame modes
SFN Adaptation	T2 Timestamp generation MISO Support
PLP management	1 or 2 PLP support Type1 and type2 management Static PLP allocation ISSY generation
FEF	FEF declaration as an option Enabling composite RF signal
T2-MI output	Generation of T2-MI packets 20Mb/s as maximum bit rate IP output featuring Pro MPEG CoP#3 FEC generation
Monitoring and Supervision	Validation of DVB-T2 parameters Easy-to-use web based GUI Full SNMP v2 support Easy integration into NMS

## 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



## ORDERING CODES

**HDc-Multi** High Density chassis to embed several modules

### Options

<b>HDc-In48V</b>	48 V input instead of 110V/220V
<b>HDc-In220VRedundant</b>	110V/220V redundant power supply
<b>HDc-In48VRedundant</b>	48V DC redundant power supply

**HDm-T2-MIGen** T2-MI Generator

### Options

<b>Multi-PLP-2</b>	Management of up to 2 PLP
<b>T2-MIGen-IP</b>	IP input/output management
<b>T2-MIGen-FEF</b>	FEF generation
<b>T2-MIGen-T2lite</b>	T2-lite support
<b>NN6-GPSv2</b>	Built-in GPS receiver

