

# NN6-T2 Gateway

## DVB-T2 Encapsulator/SFN Adapter

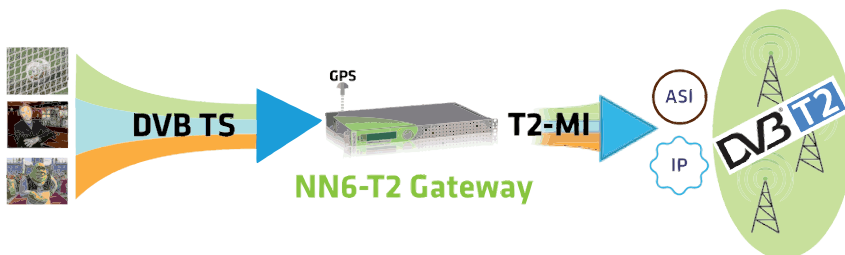


**NN6-T2 Gateway is ENENSYS' DVB-T2 Gateway that encapsulates a DVB/MPEG-2 Transport Stream into a DVB-T2 multiplex, inserts synchronization data to allow Single Frequency Network broadcasting and generates T2-MI packets over ASI and IP.**

Running at the head-end, the **NN6-T2 Gateway** encapsulates the MPEG-2 TS stemming from a typical DVB-T multiplexer. It outputs the resulting DVB-T2 multiplex using the T2-MI (Modulator Interface) protocol through ASI and IP.

The **NN6-T2 Gateway** is the central body of the operational DVB-T2 network as it provides in-band control and signaling to all the DVB-T2 modulators. When using Multiple PLP (Physical Layer Pipes) to provide service-specific robustness, the **NN6-T2 Gateway** enables all the modulators to generate the same data in a deterministic manner.

Also the **NN6-T2 gateway** enables **SFN broadcasting** over DVB-T2. It provides in-band and out-of-band synchronization information to all modulators to generate the same data at the very same time over the same frequency.



### Applications

- DVB-T2 SFN build-up
- DVB-T2 Network control
- DVB-T2 Multi-PLP management

### Benefits

- Robust and cost-effective
- Central body of the DVB-T2 network
- Quick handling of the DVB-T2 complexity
- Improve coverage when broadcasting over SFN
- Avoid TV black-out during SFN switch-over
- Straight integration into any NMS
- Reuse existing network equipment

### Characteristics

- Encapsulation into DVB-T2 baseband frame
- Configuration of DVB-T2 modulators
- DVB-T2 SFN Adaption
- Single and Multiple PLP management
- Generation of T2-MI packets
- ASI and IP outputs
- Validation of DVB-T2 transmission parameters
- Easy-to-use web based GUI
- Full SNMPv2 support

### Options

- Multi-PLP management
- SFNguard, 1+1 seamless SFN switch-over
- Built-in GPS receiver
- Redundant power supply
- 48VDC input

# NN6-T2 Gateway

## DVB-T2 Encapsulator/SFN Adapter

### Inputs Interface

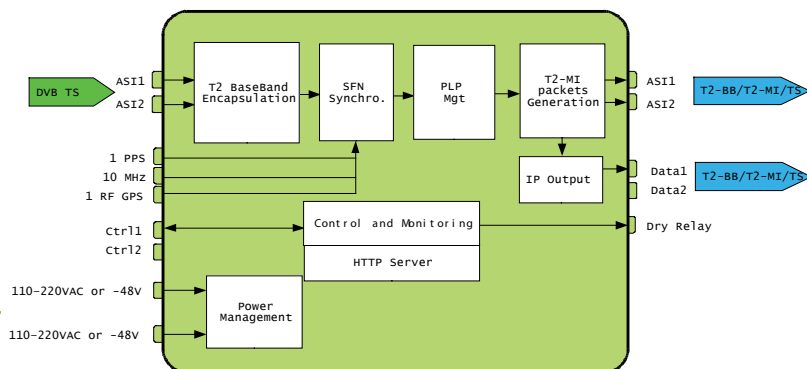
Control	2x Fast Ethernet for standard web based interface
MPEG2-TS	2x ASI inputs
GPS	1x TNC input for internal GPS 1x PPS and 1x 10 Mhz inputs 1x PPS and 1x 10 Mhz outputs

### Outputs Interface

Data	2x Gigabit Ethernet data port to output T2-MI packets over IP
MPEG2-TS	2x Mirrored ASI outputs to output T2-MI packets over ASI

### Featuring

DVB-T2 encapsulation	Encapsulation into baseband frame Full support of BB frame modes
Single Frequency Network	Integrated SFN adapter Based on GPS or NTP reference Absolute or relative time support T2-MIP generation
DVB-T2 network configuration	Control DVB-T2 modulators Generate in-band transmission and signaling information Update NIT to reference T2 streams
PLP management	Single and Multi-PLP handling PLP signaling declaration
T2-MI output	Generation of T2-MI packets Mirrored ASI output IP output featuring Pro MPEG Forum CoP#3/SMPTE 2022
Monitoring and Supervision	Validation of DVB-T2 parameters Easy-to-use web based GUI Full SNMPv3 support



### 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



ENENSYS Technologies  
 Le Germanium  
 80 avenue des Buttes de Coesmes  
 35700 Rennes  
 FRANCE  
 Office (+33) 810 ENENSYS  
 (+33) 810 36 36 79  
 Fax (+33) 2 99 36 03 84  
 sales@enensys.com