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. It also supports MISO broadcasting to increase SFN performance.
NN6-T2 Gateway

DVB-T2 Gateway

Inputs Interface
- Control: 2x Fast Ethernet for standard web based interface
- MPEG2-TS: 6x 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 receive incoming MPEG-2 TS stream and to output T2-MI packets over IP
- MPEG2-TS: 2x Mirrored ASI outputs to output T2-MI packets over ASI
- GPS: 1x PPS and 1x 10MHz outputs

Featuring
- DVB-T2 encapsulation: Encapsulation into baseband frame, Full support of BB frame modes
- Single Frequency Network: Integrated SFN adapter, MISO 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 SNMPv2 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