

InverTS

Reverse DVB-T2 Gateway (T2-MI to TS)



InverTS is a T2MI de-encapsulator and outputs the MPEG-2 TS encapsulated by a DVB-T2 Gateway. It can be embedded in a HDc chassis.

InverTS is ENENSYS' DVB-T2 Gateway reverse function designed to receive up to two T2-MI streams over Satellite, ASI or IP, containing either a single PLP or multiple PLP, and capable to de-encapsulate the T2-MI streams into one or several MPEG-2 TS over ASI and IP. It outputs the MPEG-2 TS encapsulated by a [DVB-T2 Gateway](#).

Reduce CAPEX cost

Housed in ENENSYS High Density chassis (HDc), it allows to receive up to 12x T2-MI streams in 1U. It can offer a built-in satellite receiver supporting DVB-S and DVB-S2 standards.

Bandwidth optimization of Network distribution

Reuse the T2-MI stream for other applications (T2-MI stream = carrier):

- to address different DVB-T2 transmission parameters,
- to reuse part of the services for analog TV, radio FM broadcasting,
- to repurpose the conveyed services with other TV services for regionalization or ad insertion.

Support Multiple PLP de-encapsulation

Enable single and Multiple TS output. Implements an innovative automatic bit rate computation algorithm to output a very stable and accurate TS bit rate.

Reuse legacy DVB monitoring tools

The InverTS helps monitoring one or two T2-MI streams either using its optional internal advanced monitoring tools or by connecting it to legacy monitoring tools through ASI or IP. The advanced monitoring option enables to supervise in real-time PLP bandwidth allocation, DVB-T2 transmission parameters and the MPEG-2 TS encapsulated within the T2-MI stream.

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Applications

- Reverse DVB-T2 Gateway function with multiple PLP support
- Reuse legacy monitoring tools to monitor T2MI signal
- TS processing (splicing, logo insertion, ...) from must-carry T2MI signal
- Re-using T2MI stream for analog radio or TV transmitters
- Simulcasting over different DVB-T2 frequencies

Other benefits

- Versatile inputs (satellite, ASI, IP)
- De-encapsulation of up to two T2-MI streams
- Single and Multiple PLP management
- PLP allocation and L1 signaling monitoring
- Outputs one or several MPEG-2 TS over ASI and IP
- Support BISS-1 descrambling

Technical specifications

INPUTS

Control

1x Gigabit Ethernet (RJ45)
for GUI/SNMP

T2-MI

Up to 2x ASI (BNC) inputs
1x Gigabit Ethernet (RJ45) - Option
for UDP/IP input streams
Up to 2x DVB-S/S2 inputs (F-type)
with HDmSat-InverTS (one active)

OUTPUTS

MPEG-2 TS

2x ASI (BNC) outputs
1x Gigabit Ethernet - Option
for RTP/UDP/IP output streams

FEATURING

DVB-T2 standard

V1.1.1, V1.2.1, V1.3.1, V1.4.1 support

DVB-S/S2 inputs

QPSK, 8PSK, 16 APSK, 32APSK
DVB-S2 multistream (ISI) support

MPEG-2 TS output

Outputting the encapsulated
MPEG-2 Transport Streams over ASI
and IP (optional)

Monitoring and Supervision

Easy-to-use web based GUI
User management
Full SNMPv2 support

DVB-T2 de-encapsulation

DVB-T2 Gateway reverse function
De-encapsulation of up to two T2-MI streams
over ASI or IP (optional) into one or
several MPEG-2 TS

PLP management

Single and Multiple PLP support
Management of up to 8 PLP - Option

Advanced statistics and monitoring (Option)

PLP allocation monitoring
L1 signaling display
TS tree views

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PHYSICAL

HDc

Width

443,7 mm / 17.46 in.

Format

1 RU, width 19"

Power supply

100-240V 50/60Hz or 48V DC

Data IP Ports

2x Gigabit Ethernet (RJ45) data port

Operating temperature

0 to 50°C / 0 to 122°F with 3 modules - 0 to 45°C / 0 to 113°F with 6 modules

Height

43 mm / 1.69 in.

Depth

322,8 mm / 12,70 in.

Front Panel

LCD Display and controls

Control IP Port

1x Gigabit Ethernet (RJ45) control port

Power consumption

20W/module

Ordering codes

HDc-220VRedundant

High Density chassis with 2x 220V AC Power supplies

HDm-InverTS

Reverse DVB-T2 Gateway (2xASI In/2xASI Out)

HDc-48VRedundant

High Density chassis with 2x 48V AC Power supplies

HDmSat-InverTS

Reverse DVB-T2 Gateway (2xASI/2x DVB-S/S2)

Ordering options

InverTS-DualT2MI

Support the de-encapsulation of a second T2MI

InverTS-BISS

Support BISS-1 descrambling

InverTS-MPLP-8

Management of up to 8 PLP