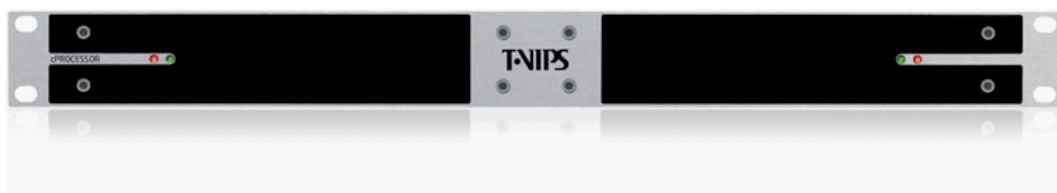


CP560 DVB-T2 Gateway

Deploy DVB-T2
with ease and at
no risk!

DVB-T2[®]



Key features:

- Already proven technology on early DVB-T2 commercial networks
- Dedicated and optimized hardware platform (non PC-based!)
- DVB-T2 Advanced features supported: Multi-PLPs, MISO/SISO, etc.
- Redundancy management for seamless T2-MI stream switchover
- Stream management for DVB-T2 regionalization
- Native ASI and IP input/output interfaces
- User-friendly configuration and control

Description

The CP560 DVB-T2 Gateway consists of a powerful and reliable rack unit, particularly addressing the needs of system integrators and transmitter manufacturers to enhance their existing DVB-T2 product range with the “must-have” DVB-T2 gateway. Indeed, the CP560 DVB-T2 Gateway provides all the required features to run DVB-T2 in a Single Frequency Network (SFN) mode in the context of trials as well as commercial network roll-outs. Located at the network head-end, the CP560 DVB-T2 Gateway can easily interface with existing service multiplexers via ASI or IP connections and is responsible for preparing and generating the T2-MI stream (DVB-T2 Modulator Interface).

Best of class technology to operate DVB-T2 in SFN

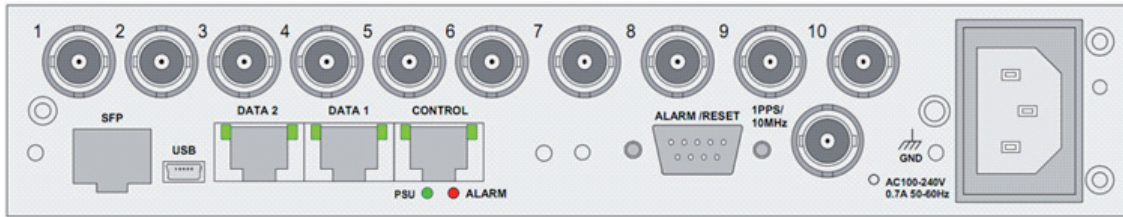
In contrast with DVB-T, where a very simple MIP Inserter is required, DVB-T2 SFN operation requires more complex processes to be carried out at the head-end. Such processes includes MPTS stream over DVB-T2 Base-Band frames encapsulation, layered modulation stream mapping (so called Multi-PLPs), DVB-T2 signalling insertion, DVB-T2 SFN stream timing and T2-MI packet transmission over ASI or IP interfaces. In addition to those basic features, the CP560 DVB-T2 Gateway provides the capability to manage a T2-MI stream seamless switch-over for robust network operations and the possibility to remotely control the entire DVB-T2 transmitter network from a central point.

Already proven solution for DVB-T2

The CP560 DVB-T2 Gateway has already been chosen by early DVB-T2 broadcasters for their commercial network roll-outs as for instance in Finland and in Sweden. One of the main advantages of the CP560 DVB-T2 Gateway is its very reliable hardware design (non PC-based!) that supports state-of-the-art DVB-T2 features. Used in combination with TeamCast DVB-T2 modulators, broadcasters can take advantage of an already proven turn-key DVB-T2 transmission solution, reducing system integration complexity, avoiding interoperability issues and enabling DVB-T2 On-Air transmission in a very short time!

CP560 DVB-T2 Gateway

Connectors



Specifications¹

■ DVB-T2 Standards

- o EN 302 755, TS 102 831, TS 102 773 (T2-MI)

■ ASI Stream Interfaces

- o 8 input/output ports (user configurable)
- o 2 output ports (main + copy)
- o Connector: Female BNC
- o Input Bitrate: Max. 213 Mbit/s
- o Output Bitrate: Max. 213 Mbit/s

■ Gigabit streaming inputs (options)

- o Type: 2 x 100/1000Base-T Ethernet
- o Connectors: 2 x RJ45 (100/1000Base-T), 1 x SFP
- o TS Encapsulation: SMPTE 2022-1/2

■ Features

- o DVB T2-MI adaptation: Single and multiple PLP
- o SFN time stamp insertion
- o L1 signalling
- o Clock reference: 1 PPS
- o UTC time reference: SNTP adjustment
- o Input signal monitoring: ETSI TR 101 290 priority 1
- o Deterministic T2 alignment: DVB T2 frames synchronised to absolute time for seamless switching between two independent CP560.

■ Control & Monitoring

- o Type: 10/100 Base-T Ethernet
- o Connector: RJ45
- o Features: Element control through HTTP/WEB. XML Configuration import and export via HTTP. SNMP control and monitoring.
- o Protocols: HTTP, XML, SNMPv2c
- o Alarm Relay: 9 pin D-SUB. Support for two relays, one of which is configurable.
- o Maintenance Port: USB version 1.1

■ Physical

- o Input Voltage: 100-240V AC +/- 10%, 50/60 Hz (Input Voltage Option: -48V DC)
- o Dimensions: 1 RU, ½-width 19" - 210 x 300 x 44.5mm (WxDxH)
- o Two units in 19" 1 RU rack
- o Installation: 19" rack mounting kit supplied
- o Operating Temperature: 0°C - +50°C
- o Relative Humidity: 5% to 95% (non condensing)

Ordering Information

xTTR-TGW0-1820	CP560 DVB-T2 Gateway 8 x ASI_In/Out, 2 x ASI_Out, 1xPLP, SFN
xTTO-TGW1-1000	2 x PLPs, ASI Interfaces (S/W License)
xTTO-TGW2-1000	4 x PLPs, ASI Interfaces (S/W License)
xTTO-TGW3-1000	Enable IP Input/Output (S/W License)
xTTO-TGW4-1000	Enable FEC on IP input/Output (S/W License)
xTTO-TGW5-1000	Enable SFP socket (S/W License)

¹ Specifications are not contractual and are subject to revision without notice.