



DTTCaster

Professional DVB-T/T2/ISDB-T/Tb demodulator

DTTCASTER IS ENENSYS' DIGITAL TV TERRESTRIAL REBROADCASTING SOLUTION OF DVB-T/T2/ISDB-T/T_b SIGNALS FOR DTT NETWORK OPERATORS AND CABLE OPERATORS THAT NEEDS TO REUSE DTT SERVICES OR OPTIMIZE THEIR DISTRIBUTION NETWORK TO TRANSMISSION SITES.

HIGH DENSITY

The **DTTCaster** operates in the ENENSYS HDc chassis to embed up to 6x **DTTCaster** modules in 1U so that the same chassis can demodulate up to 64 frequencies in the same unit; each **DTTCaster** being able to demodulate 4 different frequencies from one RF input and output the incoming MPEG-2 TS over 4 ASI ports or the IP data ports of the chassis.

MULTI-STANDARD

The **DTTCaster** is a multi-standard DTT professional demodulator that supports DVB-T, DVB-T2 and ISDB-T/Tb standards. In DVB-T and DVB-T2, it will output a MPEG-2-TS over ASI and IP. In ISDB-T/Tb, the **DTTCaster** is able to output a TS at 32.5 Mb/s over ASI and IP including all the services of the layers available off-air. At the same time, it can receive DVB-T, DVB-T2 and ISDB-T/Tb signals and output the MPEG-2 TS over the 4 available ASI ports and both IP data ports of the chassis.

DVB-T2 SFN REBROADCASTING

The DVB-T2 standard mandates the use of the T2-MI (T2-Modulator Interface) protocol to enable the broadcasting of Multiple PLP over SFN networks. However, the T2-MI packets are removed by the DVB-T2 transmitters and not broadcast off-air. The **DTTCaster** with the option **DTTCaster-T2MI** can generate a deterministic T2-MI stream Multiple PLP from a DVB-T2 off-air signal based on the reception of T2-MIP packets to rebroadcast a DVB-T2 signal in Single PLP or Multiple PLP.

APPLICATIONS

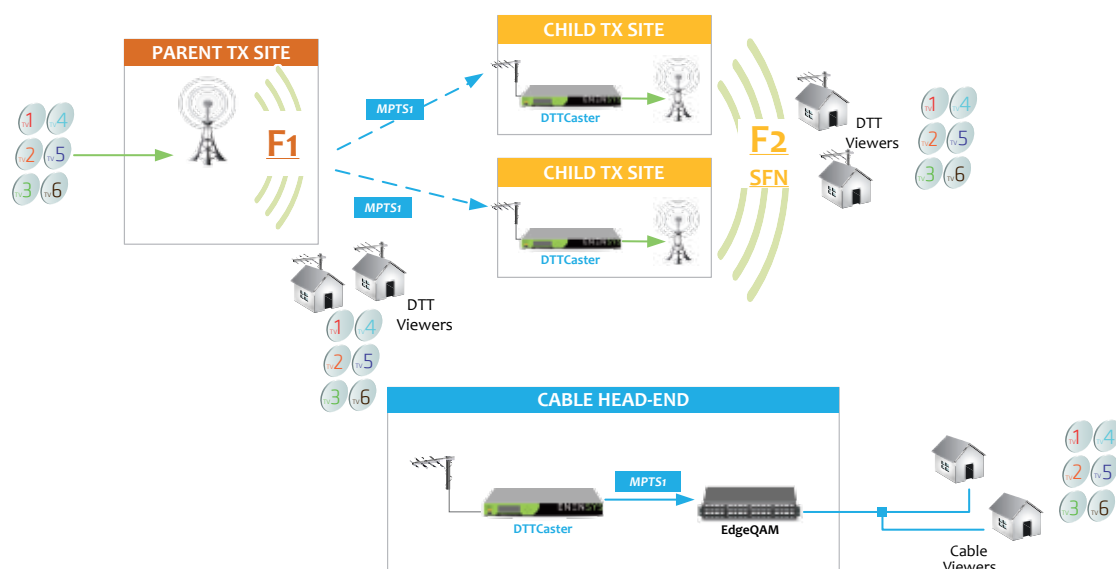
- DVB-T signal rebroadcasting
- DVB-T2 signal rebroadcasting
- ISDB-T/Tb signal rebroadcasting
- Cable networks rebroadcasting

BENEFITS

- Low CAPEX cost managing 4 frequencies at once
- Embedded in High Density chassis (HDc):
 - to allow up to 6x DTTCaster in 1U
 - to combine with ASIIPGuard, NetMod...
- Reduce CAPEX costs for DTT transmission sites by rebroadcasting signal from parent transmitter
- Optimize spectrum usage by enabling SFN rebroadcasting
- Enabling multiplex sharing in DVB-T2/MPLP

CHARACTERISTICS

- Demodulate up to 4x DVB-T signals
- Demodulate up to 4x DVB-T2 signals
- Support T2-base and T2-lite signals
- Demodulate up to 4x PLP in a DVB-T2 signal
- Output incoming MPEG-2 TS over ASI and IP
- Deterministic T2-MI generation based on T2-MIP
- Demodulate up to 4x ISDB-T/Tb signals
- Up to 4x ASI outputs and 2x IP data ports
- TS processing (PID filtering,...)





HDc MULTI



INPUTS

Control	1x Gigabit Ethernet (RJ45) for GUI/SNMP
DVB-T DVB-T2 ISDB-T/Tb	1x RF input (F-type female - 50 Ω)

OUTPUTS

MPEG-2 TS	4x ASI (BNC) outputs 2x Gigabit Ethernet (RJ45) for RTP/IP output streams
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FEATURING

Multi-standard DTT demodulator <i>RF Band</i> <i>RF Sensitivity</i>	DVB-T, DVB-T2, ISDB-T/Tb Up to 4x frequencies at a time UHF band IV-V and VHF Band III -80 to -5 dBm
DVB-T demodulation	Output MPEG-2 TS over ASI or IP 6, 7, 8 MHz bandwidth 2K and 8K FFT QPSK, 16 QAM, 64 QAM constellation 1/2, 2/3, 3/4, 5/6, 7/8 code rate
DVB-T2 demodulation	Output MPEG-2 TS over ASI or IP Single PLP and Multiple PLP support Up to 4x PLP output at a time T2-base and T2-lite support V1.1.1, V1.2.1, V1.3.1 support 1.7, 6,7,8 MHz bandwidth support
ISDB-T demodulation	Output TS over ASI or IP Multi-Layer support 6, 8 MHz bandwidth
SFN/T2 rebroadcasting	Deterministic T2-MI generation for SFN rebroadcasting (Option) Single and Multiple PLP support
TS processing	PID Filtering to remove services or components
IP management	ProMPEG CoP#3/SMPTE 2022-1 2x Gigabit ports from the chassis
Monitoring and Supervision	Easy-to-use web GUI Full SNMP v2 support

CHASSIS

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
Power supply	100-240V 50/60Hz or 48V DC
Power consumption	20W/module



ORDERING CODES

HDc-Multi-220V High Density chassis with 220V input

HDc-Multi-48V High Density chassis with 48V input

Chassis Options

HDcMulti-In220VRedundant 110V/220V redundant power supply

HDcMulti-In48VRedundant 48V DC redundant power supply

HDm-DTTCaster DVB-T/T2/ISDB-T/Tb demodulator

Module Options

DTTCaster-T2MI Deterministic T2-MI output

