



IKUSI
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DVB-T/T2 ▶ DVB-T and DVB-C twin transmodulator
MPEG4 ▶ MPEG2 transcoder



HTL-TT2

- Conversion solution for DVB-T/T2 MPEG4 services to DVB-T/DVB-C MPEG2. This includes the transmodulator function of DVB-T2 channels to DVB-T/DVB-C channels
- The terrestrial HTL-TT2 module can receive 2 DVB-T/T2 muxes and combine them on 2 DVB-T/DVB-C output channels. It handles HD and SD services both on MPEG4 H.264 and on MPEG-2, allowing HD content to be received on SD televisions.
- One module acts as the "master" to ensure the configuration (remote or local through PC) is carried out at the complete headend level, through the IKUNET bus and not module by module.
- With Ikusi's Transcoding solution, the old TV SD equipment does not need to be changed and the latest content can still be enjoyed. The Ikusi headend offers the chance of deciding when and how to up-date the television sets.

MODEL		HTL-TT2
REF.		3859
Inputs		1 (dual tuner)
Standard		EN 300 744 DVB-T ; EN 302 755 DVB-T2
Reception		DVB-T / DVB-T2
Frequency band	MHz	47 - 862
No. tuned programs		-If transcoder activated, treatment capacity is limited to 4 channels and up to 8 audio streams. -If transcoder deactivated, treatment capacity is limited only by output bitrate. Typically up to 31 Mbps for DVB-T and up to 55 Mbps for DVB-C. -Transcoder does not treat subtitles HD to subtitle SD.
Input level	dB μ V	40 - 92
Input loop gain	dB	0 (\pm 1)
TS Processing		
PSI/SI adaptation		Generating and inserting tables PAT, PMT, CAT, SDT, NIT, TOT and BAT
NIT (Network Information Table) adaptation		Yes (generated automatically)
SDT (Service Description Table) adaptation		Yes (configurable name input)
Processing LCN, TDT, TOT		Yes
Transcoding		
Supported usecases		1080i mpeg4 > 576i mpeg2
		576i mpeg4 > 576i mpeg2
Audio		AC3 > mpeg I layer II
		AC3Plus > mpeg I layer II
Outputs		DVB-T in accordance with ETSI EN 300 744 DVB-C in accordance with ETSI EN 300 429
No. of outputs		2 channels DVB-T / DVB-C
Frequency band	MHz	DVB-T: 47 - 862 DVB-C: 47 - 862
Operation modes		2K ; 8K
MER	dB	> 40
Output level	dB μ V	80
Adjustable output level	dB	-15
DVB-T modulation formats		QPSK ; 16QAM ; 64QAM
DVB-T code ratio		1/2 , 2/3 , 3/4 , 5/6 , 7/8
DVB-T guard interval		1/4 , 1/8 , 1/16 , 1/32
Bandwidth	MHz	6 / 7 / 8
Loop step attenuation	dB	1.1
DVB-C symbol rate	MS/s	7.2 max
Frequency stability	ppm	$\leq \pm 30$
General		
Remote control		Yes
Configuration		PC. Web, Ikusi Headend Discovery Wizard assistant
Supply voltage	VDC	+12
Consumption	A	2
Firmware upgrade		web interface
Operating temperature	$^{\circ}$ C	0 ... +45
IKUNET bus connector		2x RJ-45
Dimensions	mm	230 x 195 x 32