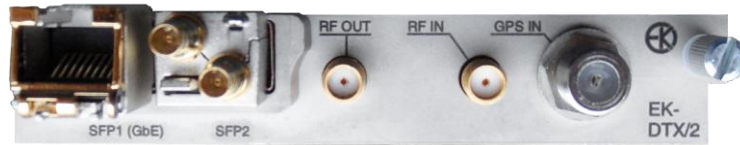


BOARD PLUG-IN EK-DTX/2

“DVB-T2 MODULATOR”



The EK-DTX/2 is a new board able to manage DVB-T2 modulation. As always this board can be inserted into our universal platform “All4Digit” and build in this way any DVB-T2 Transmitter present in our product portfolio.

Thanks to a revolutionary future-proof design, based on use of SFP connectors, customers can choose type of interfaces to use either coaxial or optical, ASI or IP and furthermore, using a direct modulation, the output of the board is delivered on a user selectable frequency in the range 30÷860 MHz in steps of 1 Hz.

The spectrum bandwidth is selectable between 8, 7, 6 and 5 MHz and with our Adaptive Pre-corrector solution (UHF band) the users can enhance the operation further by providing continuous automatic optimisation of the transmitters performance which results in very high MER value as well as a superior shoulder level suppression.

Onboard GPS professional receiver warrants a perfect SFN functionality and an integrated RMS detector allows the use of additional Power Amplifier Modules (ALC function).

Finally, as all the devices of “All4Digit” platform, also the EK-DTX/2 allows the selection of each configuration in several way: locally by the keyboard on the front panel of the Mainframe, using our GUI interface or remotely via SNMP command.

Features

- VHF/UHF agile MODULATION
- 2 SFP Cage Input (Electrical and Optical)
- GbE Input
- MFN/SFN Operation Mode
- MISO processing
- Single and Multiple PLP
- Manual & Adaptive pre-corrections
- Integrated GPS professional receiver
- Very good MER
- RMS Detector for additional POWER AMPLIFIER Modules (ALC)
- Full management by SNMP

Applications

- DVB-T2 digital broadcast
- DVB-T/H digital broadcast
- OEM Solutions (HW+SW+FW)



TECHNICAL SPECIFICATIONS

Digital Modulator			
INPUT	2 SFP Cage	ASI	Electrical
			Optical (EN 60793-2-10, EN 60793-2-50, ITU-T Rec.G.654)
		GbE (option) (PRO-MPEG, IEE 802.3)	100 BASE-T over Copper
	1000 BASE-SX over Optical Fiber		
	1000 BASE-LX over Optical Fiber		
	Internal	TS max 270 Mbit/s	
GPS	75 Ohm, +5V/50mA, > -159 dBm		
RF	-12 ÷ +3 dBm 470 ÷ 865 MHz		
OUTPUT	RF	-15 ÷ +15 dBm 35 ÷ 865 MHz	
	Internal	TS max 270 Mbit/s	
DVB-T2 FEATURES	DVB-T2 Standard ETSI 302 755 V1.1.3	MFN / SFN	
		Multi PLP	
		SISO / MISO	
		Bandwidth 5, 6, 7 and 8 MHz	
		Constellation Rotation	
	Parameters setting	From T2-MI Content	
	Redundancy	Fixed (front panel, web SNMP, MST)	
	Precorrection	Input streams auto switch	
		Manual	
		Adaptive	

BLOCK DIAGRAM

