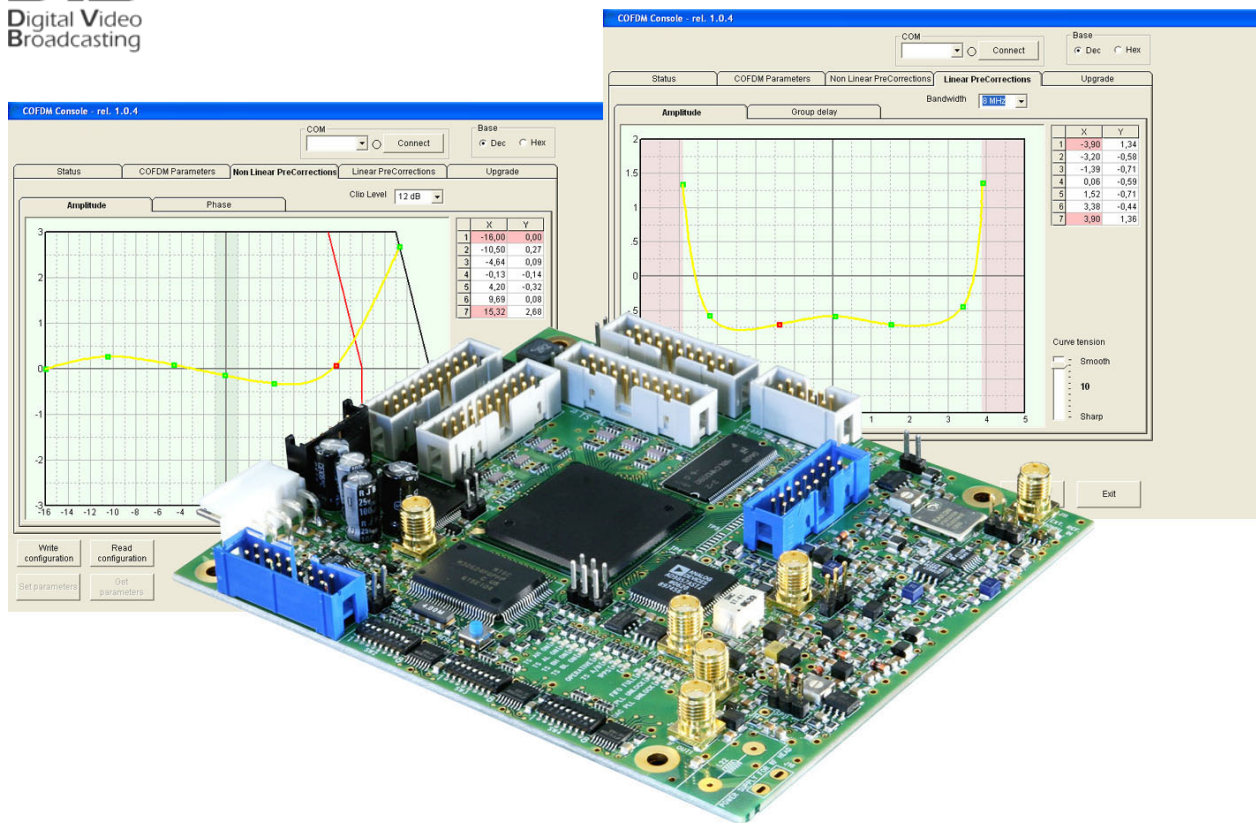


OFDM (DVB-T/H) MODULATOR BOARD

The high quality, professional and cost-effective solution

DVB
Digital Video
Broadcasting



The “**COFDM DVB-T/H Modulator Board**” is a high quality, professional, flexible and really cost-effective solution to generate a full compliant DVB-T/H IF signal suitable for different purposes:

- Digital IF Modulators
- Digital TV Transmitters
- Digital OFDM Microwave Links

Features

- Fully compliant to DVB-T/H standard ETSI EN 300 744
- IF 35 to 37MHz output with high MER (typical value: 48dB)

- SFN, in-depth interleaver and hierarchical modes supported
- Digital linear and non linear precorrection (software adjustable curves) with possibility to store up to 8 presets
- #4 Transport Stream inputs with manual or automatic near seamless switching
- Automatic Transport Stream adaptation with PCR time restamping (MFN mode)
- Stand alone operation (with jumpers/switches configuration) and RS232 remote control interface (management software and communication protocol supplied)

DVB-T/H COFDM Modulator Board

COFDM MODULATOR SPECIFICATIONS

IFFT:	2K, 4K and 8K selectable (with normal or inverted spectrum - selectable)
Bandwidth:	5, 6, 7 and 8MHz selectable
Guard intervals:	1/4, 1/8, 1/16 and 1/32, selectable
Code rates:	1/2, 2/3, 3/4, 5/6 and 7/8 selectable
Interleaver:	Native or in-depth selectable
Data scrambling:	Per ETSI EN 300 744
Modulation schemes (constellations):	QPSK, 16QAM and 64QAM selectable (16QAM and 64QAM hierarchical or non hierarchical modes supported - $\alpha = 1, 2$ or 4 selectable)
Bit rate:	Up to 31.67Mb/s (according to bandwidth, constellation, guard interval and code rate settings)
Network mode:	MFN or SFN selectable
Modulator settings in SFN mode:	Manual or automatic from MIP data + adjustable additional delay in 0.1 μ S steps
Digital precorrection:	Linear (amplitude and group-delay versus frequency) and Non Linear (amplitude and phase versus level). Up to 8 stored presettings
Output level clipping:	Adjustable
Inputs:	Up to N \geq 4 MPEG/DVB Transport Streams with manual or automatic near seamless switching SPI (LVTTTL level) Option: ASI with additional board
Transport stream output:	Input transport stream monitoring SPI (LVTTTL level) output selectable among inputs
Output frequency:	IF 36MHz \pm 1MHz in 1Hz steps
Output level:	Up to 0 dBm (adjustable)

GENERAL SPECIFICATIONS

Power supply:	D.C.
Remote control interface options:	RS232 (management software and communication protocol supplied)
Board dimensions:	110 x 126 mm.
Operating temperature range:	0 to 45° C.



All specifications contained in this document may be changed without prior notice.