



Dvb-c/t/s modulator board



DVB-C/T/S modulator board is designed for converting the parallel DVB transport stream to satellite IF signal, modulated according to DVB-S standard or directly to the RF signal of the DVB-C or DVB-T standards.

DVB-C/T/S modulator board can be used for designing a variety of converters, modulators, transmodulators and other digital broadcasting equipment. A plenty of devices can be used as a source of the input transport stream:

- [DVB-S/S2 receiver](#);
- DVB-C/T/T2 receiver;
- MPEG encoders;
- TS multiplexers;
- ASI-to-DVB TS converters;
- IP-to-DVB TS converters.

The RF output signal can be fed to combiners, additional filters or directly to television transmitters or networks. Management, monitoring and configuration of the modulator board is provided via RS-232 PC interface or TCP/IP protocol (via IP-UART Control Module).

The main advantages are:

- High quality of the modulated signal;
- Fine-tuning possibility;
- Small size and low power consumption;
- Greater flexibility.

Parameter	Value
Modulation type	DVB-C, DVB-S, DVB-T (switchable)
Modulation parameters DVB-S mode:	
Modulation	QPSK
MER	> 25 dB
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Symbol rate	1 ... 45 Msps, in steps of 1 Ksymb
Modulation parameters DVB-C mode:	
Modulation	QAM16, QAM32, QAM64, QAM128, QAM256
MER	> 45 dB
Symbol rate	1000 ... 7000 Ksps, in steps of 1 Ksymb
Modulation parameters DVB-T mode:	
Modulation	QAM16, QAM32, QAM64

MER	> 40 dB
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Guard interval	1/4, 1/8, 1/16, 1/32
IFFT	2k mode
Band channel	5, 6, 7, 8 MHz
RF parameters:	
Frequency range (DVB-S)	950 ... 2150 MHz, in increments of 1 kHz
Frequency range (DVB-C, DVB-T)	70 ... 865 MHz in steps of 1 kHz
Signal level	80 ... 110 dBuV
Connector type	SMA
Impedance	50 Ohm
Input:	
Signal type	parallel transport stream from DVB compatible modules
Connector type	PLD-34
General	
Control interfaces	RS232 (inbuild)
	TCP / IP (optional with IP-control board)
	Front panel (optional with Front panel board)
Power supply	8 ... 18 V
Power consumption, max	5 W
Dimensions	120x80 mm