



Dvb-s/s2/t modulator board



DVB-S/S2/T modulator board is designed for converting parallel DVB transport stream to satellite IF signal modulated according to DVB-S2, DVB-S or DVB-T standards.

DVB-S/S2/T 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 encoder;
- TS multiplexer;
- ASI-to-DVB TS converter;
- IP-to-DVB TS converter.

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;
- The possibility of fine-tuning;
- Small size and low power consumption;
- Greater flexibility.

Parameter	Value
Modulation type	DVB-S2, DVB-S, DVB-T (switchable)
Modulation parameters DVB-S2 mode:	
Modulation	QPSK, 8PSK, 16APSK, 32APSK
MER	> 27 dB
FEC	1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
Symbol rate	1-45 MSymb/s (<u>8PSK</u>); 1-38.7 MSymb/s (<u>16APSK</u> , 1 channel mode), 1-43 MSymb/s (<u>16APSK</u> , 1 channel mode, <u>by request</u>); 1-31 MSymb/s (<u>32APSK</u> , 1 channel mode), 1-34.5 MSymb/s (<u>32APSK</u> , 1 channel mode, <u>by request</u>); in steps of 1 KSymb/s
Roll-Off-Factor	0.2, 0.25, 0.35
Pilots	yes / no
Modulation parameters DVB-S mode:	

Modulation	QPSK
MER	> 27 dB
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Symbol rate	1-45 Msps, in steps of 1 Ksymb
DVB-T mode	
Constellation	QPSK, QAM16, 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 Mode	2k, 4k, 8k
Bandwidth	5, 6, 7, 8 MHz
RF parameters:	
Frequency range	950-2150 MHz (for DVB-S/S2 mode) / 70-865 MHz (for DVB-T mode); 1 kHz step
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	6 W
Dimensions	120x80 mm

Taking into consideration that we (ROKS PrJSC) are developer and system integrator, also do not stop on our technical growth and improvement, know that view of all our devices and equipment including their technical parameters may be different from pictures presented on website and parameters listed on each device webpage.

Note! All details customer has to confirm in advance during ordering and before payment. Those parameters that were not specified and / or were not agreed while ordering will be implemented as basic at the discretion of the manufacturer. Each our customer has 1.5 year warranty and 7 year aftersales support for whole range of our products.