



DVB-T Modulator V7

DVB-T Modulation According to ETSI-EN 300744 V1.5.1

- Constellations: QPSK, QAM16, QAM64
- FEC: 1/2, 2/3, 3/4, 5/6, 7/8
- Guard intervals: 1/4, 1/8, 1/16, 1/32
- IFFT modes: 2k and 8k
- Bandwidth: 6MHz, 7MHz and 8MHz
- IF output between 3.5MHz and 70MHz)
- Direct connection with upconverters possible
- TS-processing (bitrate adaption, PCR correction)
- >40dB MER

Option

- Serial port configuration
- Control panel

Further Information

- <http://www.sr-systems.de>

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DVB Modulator V7

The Modulator V7 provides a completely digital channel path up to the IF output: Modulation, I/Q conversion and upconverter to IF are completely implemented in software and therefore nearly reach the theoretically possible optimum.

Supported Modulation Types

The Modulator V7 is available in different versions that cover the following modulation types:

- DVB-T according to ETSI-EN 300744 V1.5.1
- DVB-C according to ETSI-EN 300429 V1.2.1

The chosen modulation type can be changed and parameterised while running.

Application Possibilities

- Converters from DVB-S, DVB-C and DVB-T to DVB-C and -T. The Modulator V7 can control the tuner modules without additional hardware. Diversity receivers are also available.
- Portable single channel DVB-T modulator with built-in MPEG2 encoder
- ASI-in-modulator conjuncted with ASI-in-adapter
- Construction of headends that can cope with adjacent channel interference with several encoders, e.g. quadruple MPEG2 encoder + multiplexer + V7 Modulator

Technical specifications

DVB-T	
Constellations	QPSK, QAM16, QAM64
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Guard Intervals	1/4, 1/8, 1/16, 1/32
IFFT modes	2k and 8k
Bandwidth	6MHz, 7MHz, 8MHz
MER	>40dB
Output level	80 - 95 dB μ V@50 Ω
IF output	between 3.5MHz and 70MHz

DVB-C	
Constellations	QAM16, QAM32, QAM64, QAM128, QAM256
Symbolrate	1000-7000 ksym/s
MER	>37dB
Output level	80 - 95 dB μ V@50 Ω
IF output	between 3.5MHz and 70MHz

General information	
TS input	8 bit parallel + clock & sync (SPI), PCR correction included
Power input	7 - 24V, ~5W
Dimensions	125x100mm