

## 1RU (or ½ RU) efficient Broadcast DVB-T Modulator with ASI in

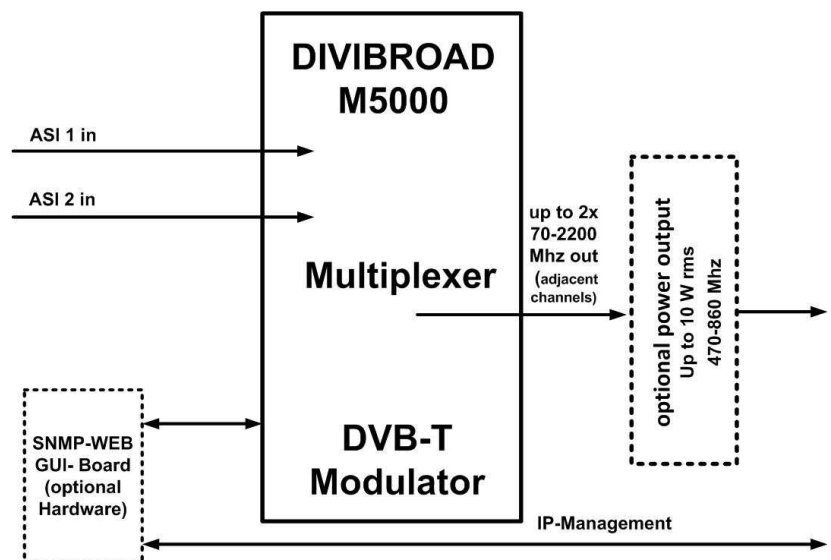
Turn around applications include typically:

- Broadcast DVB-T Dual-modulator for cable operators and broadcasters
- Output frequency adjustable from 70-2000 Mhz
- Quick First < 2 second
- Power consumption < 20 watts
- Standard DVB-T signal according to ETSI EN 300744 V1.5.1

The DIVIBROAD Modulator is ideally suited to solve a variety of tasks in the environment for cable operators and broadcasters. During its development has been placed emphasis on robustness and simple. It is characterized by an excellent price-performance ratio. With a size of 1/2 Ru 19" it is extremely compact and with a current consumption of less than 10 watts per channel to still very economical.

### Option:

- DVB-T nach ETSI-EN 300744 V1.5.1
- Up to 2x ASI input on BNC (F) - 75 ohms (coax) ,
- 188 or 204 byte mode
- QPSK, QAM16, QAM64
- 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 and 8 MHz
- RF-out 80–107 dBµV@50 Ω
- optional power output 500 mW/ 2,5 W/ 5W/ 10W rms
- output:Frequency up to 2x 70 – 2200 Mhz adjacent channels/ with optional power output 400-860 Mhz
- Symbolrate 1000–7000 kSymbol/s in 1 kSymbol-steps)
- Encryption (optional) BISS E+M
- PID-Filtering/ Multiplexer



- Automatic switching of ASI inputs on loss of signal
- Boot time < 2 second
- ½ RU Housing (M-5100) for more space in our 19" rack

DVB-Receiver

Transcoder

Streamer

Headend-Solution

**DIVIBROAD**  
The Digital Video Broadcast Equipment Factory

DVB-Encoder

Multiplexer

Server

IPTV-Solution

www.divibroad.com

Modulator	M-5110	M-5120	M-5120-Dual	M-5210	M-5220	M-5220-Dual
1.ASI in	x	x	x	x	x	x
2.ASI in	-	x	x	-	x	x
Pid filtering	x	x	x	x	x	x
IFFT Mode 2k	x	x	x	x	x	x
IFFT Mode 4k	-	-	-	x	x	-
IFFT Mode 8k	-	-	-	x	x	-
output frequency	1x 70-2200 Mhz	1x 70-2200 Mhz	2x 70-2200 Mhz	1x 70-2200 Mhz	1x 70-2200 Mhz	2x 70-2200 Mhz
Constellation	QPSK, QAM16, QAM64	QPSK, QAM16, QAM64	QPSK, QAM16, QAM64	QPSK, QAM16, QAM64	QPSK, QAM16, QAM64	QPSK, QAM16, QAM64
FEC	1/2, 2/3, 3/4 5/6, 7/8	1/2, 2/3, 3/4 5/6, 7/8	1/2, 2/3, 3/4 5/6, 7/8	1/2, 2/3, 3/4 5/6, 7/8	1/2, 2/3, 3/4 5/6, 7/8	1/2, 2/3, 3/4 5/6, 7/8
Guard Interval	1/4, 1/8, 1/16, 1/32	1/4, 1/8, 1/16, 1/32	1/4, 1/8, 1/16, 1/32	1/4, 1/8, 1/16, 1/32	1/4, 1/8, 1/16, 1/32	1/4, 1/8, 1/16, 1/32
Modulation Error Rate	>40 dB	>40 dB	>40 dB	>40 dB	>40 dB	>40 dB
RF out	80-107 dBμV@50 Ω	80-107 dBμV@50 Ω	80-107 dBμV@50 Ω	80-107 dBμV@50 Ω	80-107 dBμV@50 Ω	80-107 dBμV@50 Ω
RF OUTPUT connector	BNC	BNC	BNC	BNC	BNC	BNC
Optional Power output	no	no	no	yes	yes	yes

optional power output	500 mW	2,5 W rms	5 W rms	10 W rms
output frequency	400-860 Mhz	470-862 Mhz	470-862 Mhz	470-862 Mhz
Modulation Error Rate	>39 dB	>39 dB	>39 dB	>38 dB
RF out	500 mW rms /50 Ω	2,5 W rms /50 Ω	5 W rms/ 50 Ω	10 W rms/ 50 Ω
RF OUTPUT connector	N Femal	N Femal	N Femal	N Femal

### Monitor & Control:

- setting via the front panel or RS-232
- optional SNMP interface & Web interface

### General Spezifikation

- Power: 90-260 VAC/ optional 5-24 Volt / 10 Watt (only modulator)
- Operating Temperature: +0°C to +40°C / +32°F to +104°
- Storage Temperature: -40°C to +70 °C / -40°F to +158°F
- Size: (WxHxD) 19"x1.75"x 15" (1 RU), 9,5"x 15" (1/2 RU)
- Weight 8.8-13.2 lbs. 4-6 kg Varies based on product options

### Designed and built in Germany

DVB-Receiver	Transcoder	Streamer	Headend-Solution	<b>DIVIBROAD</b> <small>The Digital Video Broadcast Equipment Factory</small> <a href="http://www.divibroad.com">www.divibroad.com</a>
DVB-Encoder	Multiplexer	Server	IPTV-Solution	