

DVB-S/S2 Demodulator

D-MOD S/S2

The most integrated and cost effective DVB-S/S2 dual-channel demodulator ready for:

- ENG applications (L-Band and Ku Band reception),
- Satellite operators,
- Test system,
- VSAT applications,
- LOS (Line-of-Sight)/NLOS (Non Line-of-Sight) digital data transmission.

DVB-S/S2 Full Mode
Rack form factor
Attractive and simple WEB
control interface



Key features :

- Full compliance with DVB-S and DVB-S2 technology
- 2 RF inputs
- Output data type: TS, GS, BBFrames
- Ethernet interface for control and supervision
- Single power supply from 90 to 240 VAC

Description

The D-MOD S/S2 receiver is a dual DVB-S and DVB-S2 receiver. The D-MOD S/S2 is high performance dual demodulator-decoder for advanced DVB satellite reception. Each channel supports DVB-S as well as DVB-S2 in QPSK, 8PSK, 16APSK and 32APSK.

D-MOD S/S2 can be used either with LNB satellite blocks or with L-band receivers. In both cases, the D-MOD S/S2 can be configured and driven by the user with the GUI.

Performance & Reliability

All the modulations of EN 302 307 are demodulated. In the most robust MODCOD, the C/N can go below 0dB and the D-MOD S/S2 will synchronise and demodulate correctly the input signal.

Full error monitoring facilities are available and signal statistics are provided via a simple WEB interface.

Monitoring and control module is done through a simple and intuitive interface. This interface is accessible through a browser like Firefox or Opera.

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DVB-S/S2 Demodulator

Connectors



Specifications¹

■ Standards

- o DVB-S2: EN 302 307
- o DVB-S: EN 300 421
- o DVB-ASI: EN 50083-9, ETSI TR 101 891
- o MPEG-TS: ISO/IEC 13818-1

■ RF inputs

- o 2 x SMA - 75 Ω
- o Band : From 950 MHz to 2150 MHz
- o -25 dBm to -65 dBm

■ MPEG-TS Outputs (ISO-IEC 61883)

- o 2 x TS/ASI - 75 Ω
- o 2 x TS/SPI
- o MPEG-TS (188 bytes) or Generic Stream

■ Modulation

- o DVB-S:
 - Outer/inner FEC: Reed Solomon/Viterbi
 - QPSK: 1/2, 2/3, 3/4, 5/6, 7/8
 - Roll-off value: 0.35

o DVB-S2

- Outer/Inner FEC: BCH/LDPC
- QPSK: 1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
- 8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10
- 16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
- 32APSK: 3/4, 4/5, 5/6, 8/9, 9/10
- Supported DVB modes:
 - CCM: Constant Coding and Modulation,
 - VCM: Variable Coding and Modulation,
 - ACM: Adaptive Coding and Modulation
- Short and long frame
- Roll-off values: 0.20, 0.25, 0.35
- Pilots ON or OFF

■ Control & Monitoring

- o 1 x 10/100 base-T Ethernet port
- o HTML control protocol
- o Delivered with embedded control software suite

■ Physical

- o Power supply : 90 to 240 VAC - 50Hz - 15W
- o Dimensions : 450x 350x 44 (LxH)
- o Weight : 3 kg
- o Temperature: 0 °C to 50 °C

Ordering Information

TMR-DTM0-0901

DVB-S/S2 Demodulator rack with L-Band RF inputs

¹ Specifications are not contractual and are subject to revision without notice.