

Challenge Series Satellite High Speed DVB-S2 Modem SK-TS



CCM, VCM, ACM Functionality

This satellite high speed DVB-S2 modem provides a platform for modulation and demodulation according to the DVB-S and DVB-S2 standard. The modulator part accepts an MPEG transport stream on an ASI or SPI input from a video encoder or MPEG multiplexer and provides a modulated carrier anywhere between 50 to 180 MHz or at L-Band. The demodulator part accepts an IF input signal in between 50 to 180 MHz or at L-Band. The output MPEG transport stream is provided through 2 ASI interfaces or as Video over IP stream through a Gigabit-Ethernet interface.

The modem combines within one housing a DVB-S2 modulator similar to the type SDM2 and a DVB-S2 demodulator similar to type SDD-TS.

The technical parameters are similar to these units. For details please refer to the datasheets of the DVB-S2 modulator of the type SDM2 and the DVB-S2 demodulator of the type SDD-TS.

A Fan is included as standard.

Customer Field selectable Firmware Option

In order to meet your requirements different maximum symbol rates and different sets of modulation types are supported on the modulator, depending on the selected firmware option. The firmware option is password upgradeable in the field, which allows easy enhancement of the modulators if requirements change.

Summary of firmware options:

Modulator Firmware Option	Max Symbol Rate, Supported Modulation Types
	1) DVB-S / DVB-DSNG 2) DVB-S2
- QL	20 Msps, BPSK / QPSK 1)
- QH	60 Msps, BPSK / QPSK 1)
- P2L	15 Msps, BPSK / QPSK 1) 15 Msps, QPSK / 8PSK 2)
- P2N	30 Msps, BPSK / QPSK 1) 30 Msps, QPSK / 8PSK 2)
- P2M	45 Msps, BPSK / QPSK 1) 45 Msps, QPSK / 8PSK 2)
- P2H	60 Msps, BPSK / QPSK 1) 60 Msps, QPSK / 8PSK 2)
- A2L	15 Msps, BPSK / QPSK 1) 15 Msps, QPSK / 8PSK / 16APSK / 32APSK 2)
- A2N	30 Msps, BPSK / QPSK 1) 30 Msps, QPSK / 8PSK / 16APSK / 32APSK 2)
- A2M	45 Msps, BPSK / QPSK 1) 45 Msps, QPSK / 8PSK / 16APSK / 32APSK 2)
- A2H	60 Msps, BPSK / QPSK 1) 60 Msps, QPSK / 8PSK / 16APSK / 32APSK 2)

Order Information:

SK-TS-[Output Band and Impedance]-[Input Band and Impedance]-[Options]-[Modulator Firmware Option]

For possible options ask factory

Examples:

SK-TS-L50-L75-A2H

Modem with L-Band Output 50 Ω, L-Band Input 50 Ω

SK-TS-L50-V75-P2N

Modem with L-Band Output 50 Ω, VHF-Band Input 75 Ω

SK-TS-V50/L50-V50/L75-A2L

Modem with L-Band and VHF-Band Output and Input



Trade Mark of the DVB Digital Video Broadcasting Project