



## Main Feature:

- Compliant with DVB-S and DVB-S2 standard
- 2 ASI redundancy inputs for 188 or 204 byte
- 1 Gigabit Ethernet interface is implemented to receive IP data stream
- Input bit rate up to 200 Mbps
- Modulation:
  - DVB-S:
    - QPSK: 1/2, 2/3, 3/4, 5/6, 7/8, Roll-off value: 0.35
  - DVB-S2:
    - 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
    - Roll-off value: 0.20, 0.25, 0.35
- Output L-band frequency range: 950MHz ~ 2150MHz
- RF output level: -20 to 0dBm, step 0.1dB
- High SNR value, excellent shoulder levels and lowest phase noise.
- Remote control via RS232/RS485 and IP Web browser, friendly user interface
- Firmware upgrade via FTP





## Standards :

- ◆ DVB-S2 : EN 302 307,
- ◆ DVB-S : EN 300 421,
- ◆ DVB-ASI : EN50083-9, ETSI TR 101 891,
- ◆ MPEG-TS : ISO/IEC 13818-1

## TS Input:

- ◆ Support 188/204 packet length, packet mode and burst mode
- ◆ 2 ASI TS redundancy input, 1 ASI loop output
- ◆ Max bit rate: 200Mb/s
- ◆ Bit rate adaptation:
  - PCR adaptation/NPD/Padding/Dummy frame
- ◆ Connector type: BNC female, Impedance 75Ohm

## IP Input:

- ◆ 1x10/100/1000M port for IP data stream input
- ◆ Generic Stream Encapsulation (ACM)
- ◆ Connector type: RJ45

## Built-in Test Signal:

- ◆ PRBS TS sequence, null symbol insertion,
- ◆ Sinus tone generation

## Modulation and Channel Coding:

- ◆ DVB-S:
  - Outer/Inner FEC: Reed Solomon/Viterbi
  - QPSK: 1/2, 2/3, 3/4, 5/6, 7/8
  - Roll-off value: 0.35
- ◆ 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 frames
  - Roll-off values: 0.20, 0.25, 0.35
  - Pilots ON or OFF
- ◆ Bandwidth: 1 - 55MHz
- ◆ Variable symbol rate up to 45 Mbaud

## RF Output:

- ◆ Central frequency: 950MHz to 2150MHz by 1Hz step
- ◆ Signal level(Main): 0dBm +/- 1dB
- ◆ Attenuation adjustable 0 to -20dBm by 0.1dB step
- ◆ Signal stability: +/- 0.1dB/10°C, +/-0.2Hz
- ◆ SNR: >34dB
- ◆ Shoulder: >45dB
- ◆ H2 rejection: < -45dB
- ◆ Spurious: 50dBc relative to the total power
- ◆ Phase Noise:
  - @10Hz < -65 dBc/Hz
  - @100Hz < -70 dBc/Hz
  - @1KHz < -80 dBc/Hz
  - @10KHz < -90 dBc/Hz
  - @100KHz < -100 dBc/Hz
  - @1MHz < -120 dBc/Hz
- ◆ Connector type: N female, Impedance 50 Ohm

## RF Monitor Signal:

- ◆ Output level : -20dB than main output
- ◆ Connector: BNC female,
- ◆ Impedance 75 Ohm

## Alarm and Control:

- ◆ Local control: 3 LEDs indicators
- ◆ Remote control via RS232/RS485 or IP Web browser, friendly user interface,
- ◆ Protocol: IEEE802.3, IPv4, IPv6,XML, TFTP, NTP
- ◆ Stream encapsulation: RTP/UDP/IP

## Physical conditions:

- ◆ Power supply: AC 90-260V/50Hz, <40W
- ◆ Operating temperature: 0-50 degrees
- ◆ Storage temperature: -20-60 degrees
- ◆ Dimension: L=350mm, W=450mm, H=44mm (1RU)
- ◆ Weight: Net 8 kg, Gross 10 kg

