



# Transponder Modulator

## Extended L-Band High Power

MDS-PAQB-222



### Input Interface

- ASI/SPI interface (default):
  - 2x ASI input on BNC (F) - 75 ohms (coax)
  - 2x ASI output (loop through) on BNC (F) - 75 ohms (coax)
  - SPI on 25 pin D-sub connector
  - Optical ASI on ST (optional)
  - 50 and 75  $\Omega$  versions
- Combined ASI + Ethernet (optional):
  - Auto-switching 10/100/1000 Base-T Ethernet
  - Transport stream on IP (UDP / RTP)
  - DVB-SE Multi-stream support

### Modulation

- Baud rate range
- DVB-S2 0.256 - 68 Mbaud
- DVB-S/DSNG 1 - 45 Mbaud
- DVB-S/DSNG:
  - QPSK: 1/2, 2/3, 3/4, 5/6, 7/8
  - 8PSK: 2/3, 5/6
- 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, 5/6, 8/9, 9/10
  - 32APSK: 3/4, 4/5, 5/6, 8/9, 9/10



### Output Interface

- Connector: SMA (F), 50 ohms
- Output Power: -50 to +10 dBm ( $\pm 2$  dB)
- Frequency: 950 - 2050 MHz (50 Hz steps)

### Electrical Specs

- Power supply: 90-130 and 180-260 VAC, 105 VA, 47-63 Hz
- Housing: 1 RU, 510 mm deep
- Weight: 6 kg
- Temperature: 0 to 40 C operational, -40 to 70 C storage
- Humidity: 5% to 85% non-condensing

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