



# DVB Modulator

## DMOD-750L

### Digital Head End Series

The MDSA DVB Modulator DMOD-750L is a robust product to meet the needs of the terrestrial operators for high rate video data applications. The Modulator supports different modulations types- BPSK, QPSK. Variety of data interfaces allows to configure the modulator to meet high-speed satellite applications. The data provided by the selected interface are modulated on a carrier according the DVB-S or the DVB-S2 standard and one of the many modulation and coding schemes you can choose from.

MDSA DVB Modulator DDMOD-250L is a robust product to meet the needs of the terrestrial operators for high rate video data applications. The Modulator supports different modulations types- BPSK, QPSK. The wide variety of data interfaces allows you to configure the modulator to meet high-speed satellite applications.

The data provided by the selected interfaces are modulated on a carrier according the DVB-S or the DVB-S2 standard and one of the many modulation and coding schemes you can choose from.



### Features

- DMOD-750L-S2 model supports DVB-S2 standard (EN 302 307) which increases in performance that DVB-S2 delivers. This new standard will allow for bandwidth and power savings over the current DVB-S standard.
- Note: for MVDDS applications the STB (set-top-box) must support DVB-S2 standard.
- L-band modulator (950-2050 MHz) output, which can be used with RF frequency block converter modules to C-, Ku-, and K-bands.
- For the critical applications the DMOD-750L can be combined into redundancy configuration through a redundancy switch (supplied separately). Such backup configuration allows to manage up to 9 MDSA DVB Modems (1 for 9 protection). It also allows different flexible backup configurations such as 1:9, 2:8, etc.



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# Technical Specifications

## DMOD-750L

### RF Specifications

- Frequency range: 950 to 2050 MHz
- Output impedance: 50 Ohm
- Output signal range: -25 to 0 dBm
- Adjustment of output signal level: 0.1 dB step
- Output Return loss, min: 15 dB
- Phase noise @ offset:
  - 100 Hz: - 66 dBc
  - 1 kHz: - 70 dBc
  - 10 kHz: - 85 dBc
  - 100 kHz: - 100 dBc
  - 1 MHz: - 120 dBc
- Modulation type: BPSK, QPSK
- Symbol rate: 45 MSps max
- FEC encoding
  - QPSK: 1/2, 2/3, 3/4, 5/6 and 7/8
- Internal clock stability: 10 ppm

### Interfaces

- Data Interfaces
  - DVB ASI- internal loop
  - Optional G.703, T1 to T3, E1 to E3, DSS, LVDS
- Monitoring and Control
  - RS232, RS485, Ethernet, SNMP

### Hardware Specifications

- Power supply: 100 to 240 VAC, 50/60 Hz
- Power consumption: 43 watts max
- Temperature: 10 to 50 degrees Celsius
- 19" rack mount, 16 inch depth

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