EXFO Vision Dual QAM/VSB Input Module BV-2062V

SPEC SHEET

Designed for comprehensive monitoring of cable and broadcast television signals.

KEY FEATURES

- All-band DVB-C and ATSC cable/terrestrial receiver (44 to 856 MHz)
- Fully compliant with ETS 300 249 specification for DVB-C applications
- ITU-T J.83 (Annex A, B and C)
- Supports up to 256 QAM and 8VSB/16VSB
- Wide symbol rate of 0.87 to 7.0 MBd
- Compatible with the BV-2000V and BV-1200V Video Verifiers

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The BV-2062V Dual QAM/VSB input option offers monitoring of QAM signals found in QAM cable networks and DTT signals found in 8VSB/16VSB networks. The chassis can be equipped with a single BV-1200V or BV-2000V verifier that has one or two BV-2062V RF input cards under its control. The BV-2062V is designed to be used in concert with EXFO Vision software as part of the EXFO Vision live video monitoring solution.

The complete configuration with the fully licensed BV1-200V provides real-time monitoring and alarming for four QAM or VSB RF inputs, up to 50 IP MPTS/SPTS multicasts and one ASI TS input per chassis. ETSI TR 101 290 analysis can be performed in parallel for RF inputs, the ASI input and the IP input. If the BV-2000V is used as master card, the IP monitoring capacity is increased to 260 MPTS/SPTS multicasts in addition to the RF inputs.

The combined unit is ideal for hybrid networks where IP is used as a carrier from the head-end to the regional edge multiplexer, modulator or transmitter. The built-in round-robin functionality allows sequential analysis of multiple QAM or VSB multiplexes, making it possible to monitor the total broadcast contents of a cable transmission system using a single BV-2062V.

The BV-2062V Dual QAM/VSB input option card is an ideal solution for complete monitoring in DVB-C or hybrid DVB-C/IP networks. One BV-2062V module is capable of demodulating two multiplexes (one per input) for ETSI TR101290 fault detection and alarm generation in the full frequency band (44 to 858 MHz). By running in sweep mode, the BV-2062V module is further capable of measuring analog signal levels, in effect offering the operator a basic frequency analyzer function at the deployment location.

FEATURES INCLUDE:

- Dual input digital cable/terrestrial receiver
- Fully independent inputs
- Fully compliant with ETS 300 249
- ITU.T J.83 (Annex A, B and C)
- QAM modes: 16, 32, 64, 128, 256
- VSB modes: 8VSB, 16VSB
- Constellation diagram
- Wide symbol rate range of 0.87 to 7.0 MBd
- Selectable IF filter (6/8 MHz)
- Excellent neighbor channel isolation
- Dual 75 ohm F-connector input
- SNR
- Pre-FEC BER
- Post-FEC BER
- MER
- Input signal level
- Frequency offset
- Symbol rate offset
- Spectrum inversion
- AGC Lock/Carrier lock indication
- Inputs support round-robin operation
- Fully controlled via backplane by BV-1200 or BV-2000
- Built-in general purpose alarm relay (GPI)

SPECIFICATIONS

- Frequency range: 44 to 858 MHz
- Symbol rate: 0.87 to 7.0 Msym/s
- RF power level: –60 dBm to –10 dBm (± 1.5 dB)
- SNR (*): < 37 dB (± 2 dB)
- MER: < 37 dB (± 2 dB)
- BER pre-FEC (*) >1.0 E-8
- BER post-FEC (*) >1.0 E-9
- Input sensitivity: –60

VSB features

- Dual input digital terrestrial receiver
- Fully independent inputs
- FCC VSB ready for DTT
- VSB modes: 8VSB, 16VSB

RF input

- F-connector, female

Alarm relay

- Nine-pin D-SUB, male
- Three-pin relay

Mechanical

- Standard 1RU 19-inch rackmount unit
- Dimension (W x H x D): 483 mm x 43 mm x 400 mm
- Weight: 4.2 kg (fully populated)

Environment specifications

- Temperature
  - Operating: 0 °C to 50 °C (32 °F to 122 °F)
  - Storage: –20 °C to 70 °C (–4 °F to 158 °F)
- Operating humidity: 5 % to 95 % non-condensing

Control and management

- Fully controlled through platform backplane
- Accessible through the master BV-1200V or BV-2000V

Power supply requirements

- Draws power from platform backplane
- Maximum 5 W dissipated per card

Compliance

- CE-marked in accordance to low voltage directive (LVC) 73/23/EEC and EMC directive 89/336/EEC. Compliant to requirements for US and Canada. Designed for CSA approval.

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