

EXFO Vision Satellite Input Module BV-2070V



Allows monitoring and analysis of QPSK signals found in DVB-S and DVB-S2 satellite transponders

KEY FEATURES

Ideal for monitoring satellite feed quality in the headend

DiSEqC 2.x compliant

DVB-S: 10 to 30 Msymb

DVB-S2: (LDPC/BHC) 10 to 30 Msymb

Radio frequency (RF) measurements: pre and post FEC
BER, SNR

Analog RF carrier signal level measurement

Compatible with BV-2000V and BV-1200V video verifiers

The Satellite Input Module BV-2070V allows monitoring and analysis of QPSK signals found in DVB-S and DVB-S2 satellite transponders. The system monitors both analog carrier signal quality and the quality of the MPEG video content, providing complete visibility. This unit is specifically designed for EXFO's BV-1200V or BV-2000V. A single platform can accommodate one verifier and one or two BV-2070V.

For example, a platform with one IP-enabled BV-1200V and two BV-2070V Input Modules provides real-time monitoring and alarming for two QPSK RF inputs, ten IP MPTS/SPTS multicasts and one asynchronous serial interface (ASI) transport stream (TS) input. ETSI TR 101 290 analysis is performed in parallel for QPSK inputs, the ASI input and the IP input. If the BV-2000V is used as a master card and the IP monitoring capacity is increased to an impressive 260 MPTS/SPTS multicasts.

The combined unit is ideal for hybrid networks where IP is used as a carrier from head-end to the satellite uplink station. The built-in round-robin functionality allows sequential analysis of multiple QPSK multiplexes, making it possible to monitor a complete transponder using a single BV-2070V.

By running in sweep mode the BV-2070V is further capable of measuring analog signal levels, providing a basic frequency analyzer function at the deployment location.

ADDITIONAL FEATURES

- › Configurable round-robin transponder testing
- › Fully controlled via backplane by EXFO's BV-1200V or BV-2000V
- › Built-in general purpose alarm relay (GPI)
- › Two ASI output for ad-hoc ASI connections—75 ohm BNC

SPECIFICATIONS

RF input

- › F-connector, female

ASI outputs

- › Two 75-ohm backbone network connection, female

Alarm relay

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

Platform specifications (platform sold separately)

- › Standard 1U 19-inch rackmount unit
- › W x H x D: 483 mm x 43 mm x 400 mm
- › Weight: 4.2 kg (fully populated)
- › Power supply: 100-240 VAC (model BV-V-AC) or -48 VDC (model BV-V-DC)

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-2000V and EXFO Vision

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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