VB262 CABLE QAM ITU.T J-83 ANNEX A/B/C RF INPUT

The VB262 DUAL QAM/8VSB input option offers monitoring of cable TV signals as found in ITU-T J.83 Annex A/B/C QAM networks and DTT signals found in 8VSB networks. A chassis can be equipped with a VB120 or VB220 PROBE controller that has one or two VB262 RF input cards under its control.

Figure - The 1RU Enhanced Chassis populated with one VB120 controller module and two VB262 QAM/8VSB input modules.

A complete configuration with a fully licensed VB120 provides real-time monitoring and alarming for four QAM or VSB RF inputs, 50 IP MPTS/SPTS multicasts, upgradeable in steps of 10 from an initial 10 streams, and a ASI TS input and output.

ETSI TR 101 290 analysis is performed in parallel for the QAM/8VSB inputs, the ASI input and the IP input. If the VB220 is used as master card the IP monitoring capacity is increased to impressive 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 head-end to the regional edge multiplexer/ modulator/ 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 VB262.

Each RF input port can be programmed to scan through 50 individual frequencies in a round-robin fashion.

TECHNICAL FEATURES

- Frequency range: 51-1003 MHz
- Dual input digital cable receiver
- Fully independent inputs
- Fully compliant with EN 300 429 (DVB-C)
- Fully compliant with ITU-T J.83 Annex A/B/C
- QAM modes: 16,32,64,128,256
- Constellation Diagram
- Wide symbol rate range of 0.87 to 7.0 Mbaud
- User selectable IF filter (6/7/8 MHz)
- Excellent neighbour channel isolation
- Dual 75 ohm F-connector inputs
- Pre-FEC BER, Post-FEC BER, SNR, MER, Level
- CFO, SRO

VB262 SPECIFICATIONS

- Symbol rate: 0.87-7.0 Msym/s
- RF power level: -60 dBm to-10 dBm (+/-1.5 dB)
- SNR (*): < 42 dB (+/-2 dB)
- MER: < 42 dB (+/-2 dB)
- BER pre-FEC (*) > 1.0E-8
- BER post-FEC (*) > 1.0E-9
- Input sensitivity: -60 dBm
- (*) 6.9MS,BER2x10e-4,QAM256
- Minimum signal strength for highest MER readings: -45 dBm

VB262 VSB FEATURES INCLUDE

- Dual input digital terrestrial receiver
- Fully independent inputs
- VSB modes: 8VSB

PRODUCT ORDERING CODES

VB262	DVB-C QAM/8VSB/Analogue Demodulator Interface blade single RF input - ITU.T J83 Annex A/B/C
VB262RF-OPT	Additional RF input option for VB262 card for a total of two, factory ordered
VB262RF-UPGR	Additional RF input option for VB262 card for a total of two
VB262-ARF-OPT	Advanced RF Option for VB262 with channel spectrum analysis, factory ordered
VB262-ARF-UPGR	RF Option for VB262, upgrade license

OPTIONS INCLUDED

ETR290

SOFTWARE OPTIONS

ETR290 | OTT | SECOND INPUT | ADVANCED RF

RELATED PRODUCTS

VB120 | VB220

CHASSIS OPTION

ACC | DCC | EC | EC-DC

TECHNOLOGIES

Eii | RDP | microETR | DVB-C

PHYSICAL AND ENVIRONMENTAL SPECIFICATIONS

Operating temperature: 0°C to 45°C
Storage temperature: -20°C to 70°C
Operation humidity: 5% to 95% non-condensing

POWER SUPPLY REQUIREMENTS

Input voltage: 100 to 240V AC
Power required: 15VA
Power dissipated: maximum 5W

COMPLIANCE AND SAFETY

Compliant to requirements for US and Canada. Designed for CSA approval. Bridge Technologies continuously improves on products and reserves the right to modify the specifications without prior notice.

EMC: EN 55022I CISPR 22 Class A, EN 55024I CISPR 24, EN 61000-3-2/ IEC 61000-3-2, EN 61000-3-3/ IEC 61000-3-3, 47 CFR, Class B **SAFETY**: EN 60950-1, IEC 60950-1 Edition 2.0

ENVIRONMENTAL COMPLIANCE POLICY

Bridge Technologies co as is committed to fulfilling all statutory environmental requirements in accordance with the WEEE scheme.

In order to prevent the generation of hazardous waste, Bridge Technologies undertakes the responsibility for taking back and recycling electrical and electronic equipment.

This will provide incentives to design electrical and electronic equipment in an environmentally more efficient way which takes waste management aspects fully into account.

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