

QAM DVB-C/C2 RF INTERFACE CARD



On the cutting edge of technology is the VB266 DUAL QAMDVB-C/C2 RF Interface with all the modulations available from QAM16 to QAM4096 for modern networks with high-density MPTS transports. Up to two inputs on each cards will together with the VB120 or VB220 controllers give 4 inputs in a 1" RU chassis.



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

ETSI TR 101 290 analysis and monitoring is performed in parallel for the QAM inputs, the ASI input and the IP input. If the VB220 is used as master card the IP monitoring capacity is increased with 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. The built-in round-robin functionality allows sequential analysis of multiple QAM multiplexes, making it possible to monitor the total broadcast contents of a cable transmission system using a single VB266.

The VB266 DUAL QAM DVB-C/C2 input option card is an ideal solution for complete monitoring in DVB-C/C2 or hybrid DVB-C/C2/IP networks. One VB266 module is capable of demodulating two multiplexes (one per input) for ETSI TR101290 fault detection and alarm generation in the full frequency band (44MHz –1GHz).

TECHNICAL FEATURES

- Dual input digital cable receiver
- Fully independent inputs
- Fully compliant with ETS 300 249
- ITU.T J.83 (Annex A/B/C)
- QAM modes: 16,32,64,128,256, 1024, 4096
- Constellation Diagram
- Wide symbol rate range of 0.87 to 7.0 Mbaud
- Selectable IF filter (6/8 MHz)
- Excellent neighbour channel isolation
- Dual 75 ohm F-connector input
- Frequency range: 44-1GHz
- Symbol rate: 0.87-7.0 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 (*) > 1.0E-8
- BER post-FEC (*) > 1.0E-9
- Input sensitivity: -60
- (*) 6.9MS, BER2x10e-4, QAM256

PRODUCT ORDERING CODES

VB266	DVB-C/C2 QAM Demodulator Interface blade single RF input
VB120	ASI probe blade. 10/100/1000T or SFP GigEthernet (IP-OPT required for IP monitoring). ASI in/out. Built in ETSI TR 101 290 Analysis
VB220	IP-Probe blade w/Gbit electrical/optical inputs + ASI in. Built in AET

OPTIONS INCLUDED

ETR290

SOFTWARE OPTIONS

SECOND INPUT

RELATED PRODUCTS

VB120 VB220

CHASSIS OPTION

ACC DCC

TECHNOLOGIES

MediaWindow FSM Eii DVB-C/C2

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 55022/1 CISPR 22 Class A, EN 55024/1 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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