VB256

ISDB-T TERRESTRIAL RF INPUT MODULE. The VB256 ISDB-T input module expands Bridge Technologies' digital terrestrial monitoring capabilities to encompass the Latin American and Japanese terrestrial markets. Supporting both ISDB-T/SBTVD-T standards, it enables customers operating in these regions to fully monitor their ISDB-T transmissions.

Technologies

Bridge Technologies options are designed to enhance the overall ability and performance of accurate monitoring in the broadcast environment

Click below to learn more about compatible technology options:

ETR290™

Environmental

Eurovironment RoHS WEEE

Chassis Options

ACC DCC EC EC-DC

Overview

Two modules may be housed in a 1RU chassis together with a controlling VB120 or VB220 probe, providing high monitoring capacity occupying a minimum of rack space. The VB256 will enable the monitoring of multiple RF parameters, supporting 6, 7 and 8 Mhz channels.

The demodulated transport stream is then presented to the card's ETR 290 engine for full priority 1, 2 and 3 analysis. Each VB256 card has two independent inputs, allowing two channels to be monitored continuously. Multiple channels may also be assigned to a VB256 input, enabling the tuner to cycle round up to 100 channels and providing a dense yet compact monitoring solution.

Tech Features

VB256 ISDB-T TERRESTRIAL RF INPUT MODULE

- Supports ISDB-Tb ARIB STD-B31
- Signal level, SNR, MER, BER per layer A/B/C Features ISDB-T/SBTVD-T Excellent phase noise resistance Excellent multipath equalization performance Two independent RF inputs capable of parallel operation
- 75 ohm female F-type connectors
- 9-pin D-Type male connector for relay alarm indication
- One red/green LED TS sync indicator per RF input
- Round-robin capability across multiple PLPs within one frequency

RF SPECS

- Channel bandwidth: 6,7,8 MHZ
- RF input level: -70 to -10 dBm
- RF input signal frequency range: 42MHz – 1002MHz
- Connector Type: F-Connector Female
- The matched input presents 75ohm impedance
- Return loss: > 9 dB

RF PARAMETERS

- Channel power RF level
- Modulation Error Rate MER(PLP)
- Signal to Noise Ratio SNR
- PreRS BER-A
- PreRS BER-B
- PreRS BER-C
- PER-A
- PER-B
- PER-C

ISDB-T SYSTEM

- ISDB-T – ISDB for Terrestrial Television Broadcasting

- ISDB-TSB – ISDB for Terrestrial Sound Broadcasting ISDB-T system modes
- 1 (Number of carriers = 1405)
- 2 (Number of carriers = 2809)
- 3 (Number of carriers = 5617)
- Code Rate : 1/2, 2/3, 3/4, 5/6, 7/8
- Modulation : DQPSK, QPSK, 16QAM, 64QAM
- Guard Interval : 1/32, 1/16, 1/8, 1/4

RF SPECIFICATIONS

- RF power level: -80 dBm to -20 dBm
- RF power level accuracy: +/- 1.5 dB
- RF power level resolution: 1 dB
- Maximum SNR: > 38dB +/- 1.5dB
- Maximum MER: > 38dB +/- 1.5dB
- Carrier offset: < 15 ppm of tuning frequency
- SFN drift: 0 to 500ms
- SFN drift accuracy: +/- 2us

VB256 (requires Advanced RF Option)

– Channel Impulse Response diagram with alarming capabilities
– Constellation diagram

Software Options

- Additional RF input option for VB256 card for a total of two, factory ordered
- Additional RF input option for VB256 card for a total of two, upgrade
- Additional ARF input option for VB256 card, factory ordered
- Additional ARF input option for VB256 card, upgrade

Ordering Codes

VB256 ISDB-T- Terrestrial RF Input Module

VB256RF-OPT – Additional RF input option for VB256 card for a total of two, factory ordered

VB256RF-UPGR – Additional RF input option for VB256 card for a total of two, upgrade

VB256-ARF-OPT – Additional ARF input option for VB256 card, factory ordered

VB256-ARF-UPGR – Additional ARF input option for VB256 card, upgrade

BRIDGE TECHNOLOGIES™

Documentation

User Manual – Download

Quick Start Guide – Download

Related Products

VB120

IP MONITOR PROBE

VB252

DVB-T/T2 TERRESTRIAL RF INPUT MODULE