

VB243 ASI INTELLIGENT REDUNDANCY SWITCH

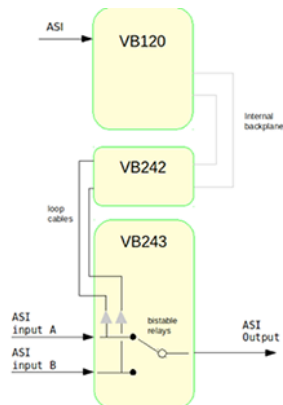
The VB243 provides full dual path redundancy for ASI signals with autonomous operation and deep signal analysis on both signal paths for the ultimate switching decision making. Front panel controls with illuminated buttons offer local override control and a clear visual indication of the active switching path.

The redundancy switch offers three distinct modes of operation making it suitable for any real-life operational challenges. These are Automatic mode, Manual mode and SuperLocal mode.



Figure - Pictured is a complete VB243 system with a VB120 controller, a VB242 ASI input blade and a VB243 ASI 2:1 switch blade housed in a 1RU Redundant AC powered chassis. Not shown are the two factory fitted connecting cables between port 1 and 2 on VB242 and the VB243 switching module. The power consumption of this configuration is a modest 25W giving additional savings in operational costs.

The VB243 INTELLIGENT REDUNDANCY SWITCH has multiple layers of redundancy. The 1RU chassis offers dual redundant power supplies and the VB243 switching card has magnetically latching relays to protect against signal disruption even during a complete loss of power.



The VB243 switch module actively taps off a small portion of the input signal from both inputs, amplifies it and then feeds it to the neighbouring VB242 ASI input module via two factory fitted cables.

This allows monitoring and analysis to take place on both inputs simultaneously for switching purposes.

If any problem in any parameter is detected preset rules apply and the unit will check the opposite input for the same failure and perform a switch if no failure is detected.

To avoid switch flapping a minimum switchback time can optionally be configured. All the parameters in the implementation of the TS 101 290 specification can be utilised as switching criteria

In automatic mode the VB243 system is fully independent and makes its own switching decisions based on the preset switching rules. In manual mode the unit can be controlled from any overlying NMS system via the extensive XML-based Eii (External Integration Interface) or via SNMP triggers.

The VB243 also features a unique superLocal mode feature to deliberately cut off overlying NMS control for emergency manual override situations via the front button panel. All parameters can be controlled via the built-in web GUI. The web GUI also gives a visual overview of parameters used in switch decisions and system status.

The VB120 blade offers a bonus ASI input port with TS 101 290 analysis support that can be used for ad-hoc monitoring in addition to the two main ASI input ports used on the VB242 blade should the need arise.

TECHNICAL FEATURES

- 2:1 switching operation with latching relays
- Simultaneous monitoring of two AS switching inputs plus ad-hoc ASI input
- 2 DVB-ASI inputs EN 50083-9, Annex B
- 1 DVB-ASI output EN 50083-9, Annex B
- Supports burst mode, spread mode, M2S
- Supports 188 or 204-byte packet length
- 75 ohm BNC (female) connectors
- Spare ASI input: 75 ohm HD-BNC (female)
- Switching modes: automatic, manual, superlocal
- TS 101 290 priority 1, 2 and 3 switching criterias
- PID analysis, Service analysis, bandwidth overview, table analysis
- Automatic or manual TS recording of up to 200MB
- Thumbnail extraction
- Configurable alarm severity level
- PSIP support (ATSCA/78)
- Exportable logs
- Management port: 10/100/1000-T RJ45
- Video port: 10/100/1000-T RJ45
- Alternative SFP Video port for optical connectivity
- Web-based element management
- 9-pin DSUB alarm relay
- USB type-A port for maintenance
- Condensed mosaic thumbnail view of all services monitored

PRODUCT ORDERING CODE

VB243-ASI-SWITCH VB243 ASI INTELLIGENT REDUNDANCY SWITCH SYSTEM

RELATED PRODUCTS

VB120 VB242

CHASSIS OPTION

ACC DCC EC EC-DC

TECHNOLOGIES

Eii ETR290

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 CISPR 22 Class A, EN 55024 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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Bridge Technologies Co AS,
Address: Bentsebrugata 20, NO-0476 Oslo, Norway.
Phone: +47 22 38 51 00. Web: www.bridgetech.tv
VAT NO987002808MVA, DUNS: 7303 64945

