DVB-S/S2 Intelligent Redundancy Switch Kit

VB273-KIT, VB-273-LBAND-KIT

The VB273 provides full dual-path redundancy with autonomous operation and deep signal analysis on both signal paths for unprecedented switching decision making. Front panel controls with innovative illuminated signal path visualization and light illuminated buttons give local control and excellent visual overview of switching operations.

Local autonomous operation, remote control by NMS and/or triggers in addition to a SuperLocal mode for complete local override make it suitable for any real-life operational challenges.

The VB273 INTELLIGENT REDUNDANCY SWITCH has multiple layers of redundancy, from the VB300 dual power AC chassis to magnetically latched broadcast-grade signal relays to protect against any contingency, even a complete power loss and also to provide component upgrade or swaps without signal interruption. The VB273 card provides 2 inputs of post modulator signals and one output for the transmit stage.

The switch also provides an IF/L-Band tap to feed the neighboring VB272 DVB-S/S2 module with signals from two different production chains for real-time analysis of both signals. If any problem in any parameter is detected, pre-set rules apply and the unit will check the opposite input for the same failure and switch if no failure is detected. To avoid switch toggling, rules for a minimum time to switch back or manual switchback also can be set. All the parameters in the comprehensive ETR290 engine can be utilized for switch triggering, including detailed CA system validation checks and all priority 1/2/3 parameters.

The VB273 system can be set up to be totally independent and make its own switching decisions, but can also be controlled from any NMS system with extensive Eii (External Integration Interface) parameters or SNMP triggers.

The VB273 also features a unique SuperLocal 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 which displays a visual overview of parameters used in switch decisions and system status.

KEY FEATURES

- 2:1 redundancy switching functionality based on built-in monitoring of incoming satellite signals
- Monitoring feature set of VB120 included making this a switch and a probe combined into one
- Supports 70/140MHz IF (VB273) and 950-2150MHz L-band (VB273-LBAND)
- Three-stage button logic supporting 3 distinct modes: Manual, Auto, Super Local
- Robust, bit-stable RF relays ensure state is preserved even in the event of a power loss
- Passive signal loop through even when unit is powered down
- Capable of receiving DVB-S/S2 QPSK, DVB-S2 8PSK, DVB-S2 16APSK, DVB-S2 32APSK
- Continuously monitor and switch on all TR 101 290 priority 1, 2 and 3 parameters
- Customise alarming and switching template on all parameters
- Independent alarm template and redundancy switching template to allow a parameter to be alarmed on while simultaneously not resulting in a redundancy switch
- Continuously monitor and switch on RF parameters: Channel power RF level, MER, SNR, EVM, BER pre/post Viterbi, BER post LDPC-BCH, RS packet error count, Carrier frequency offset, Symbol rate offset
- Automatic or manual TS recording of up to 200MB for recording fault that triggered redundancy switch
- PID analysis, Service analysis, bandwidth overview, PSI/SI/PSIP table analysis
- Thumbnail extraction with audio bars and meta data

ORDERING

- VB273-KIT: IF Satellite Redundancy Switch Kit including VB300 1 RU chassis, VB120D, VB272, VB273 and licenses
- VB273-LBAND-KIT: L-Band Satellite Redundancy Switch Kit including VB300 1 RU chassis, VB120D, VB272, VB273 and licenses

SPECIFICATIONS

DVB-S/S2 Intelligent Redundancy Switch Kit

PHYSICAL AND ENVIRONMENTAL

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

POWER SUPPLY

Input Voltage:	100 to 240 VAC
Power Required:	15W
Power Dissipated:	Maximum 5W