



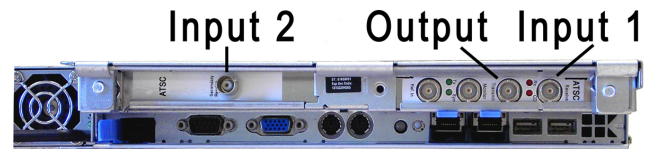
Two Channel Real Time MPEG-2 SMPTE 310M Failover Switch with Real Time and Sophisticated Transport Stream Monitoring. Complete Remote Management, Setup, and Error Reporting via Web Based Interface. Created for Satellite, Cable, and Other Content Where N+1 Redundancy in Signal Paths is Crucial. Will Play Stored Video from Hard Drive if Both A and B Inputs are Inoperative.

Features

- Input: Two SMPTE 310M inputs
- Output: SMPTE 310M
- Automatic switch to secondary input
- Intelligent real time signal path monitoring
- Web interface for remote configuration management
- Access Control to restrict unauthorized users
- Mechanical Bypass Relay connects primary input to output in the event of power failure
- Configurable delay to switch from primary to secondary input
- Carrier Detect, Synchronization, and Bitrate Status on active input
- Configurable automatic switch back to primary
- 1 RU rackmount server
- Logging history indicates switch state with date and time stamp
- Green and Red status indicators to indicate active and inactive inputs
- RoHS compliant server with redundant power supply

Applications

- Transport stream failover protection in cable head ends
- Transport stream protection in Teleports
- Transport stream protection for On Air Video servers



Back Connectors



Front

Overview

Transport Streams are used throughout the world in the delivery of satellite based distribution of content by most of the world's content delivery networks. There is a huge value attributed to this content. It must be delivered reliably 24 hours a day and there is no room for failure.

The **ATSC Guardian™** is designed to monitor a primary transport stream and automatically switch to a back-up transport stream source if problems are detected with the primary transport stream. This is ensured by a very comprehensive transport stream monitor that continuously analyzes the quality of incoming streams.

The Guardian monitors the input signal for carrier detect by looking for consecutive sync bytes. When sync is lost, ATSC Guardian switches to the secondary input signal. The wait time before switching can be programmed from 0 to 20 seconds.

For complete remote management the Guardian also offers several must-have capabilities that allow a headend automation system to protect the content. These include programmable auto switching, web based management, and real time stream status.

ATSC Guardian is configured in a High Reliability Dell 1RU Server with features such as access control, optional redundant power supplies, and a mechanical relay connecting the primary input to the output in the event of a power failure. Once configured, the Guardian should operate 24/7. We have "life acceleration" tested it under high temperature and it has stood the test of time. At this time it can be completely bypassed by an external TTL switch closure. In future editions we will have a panic button interface which will put it in bypass mode under manual control.



Computer Modules, Inc.

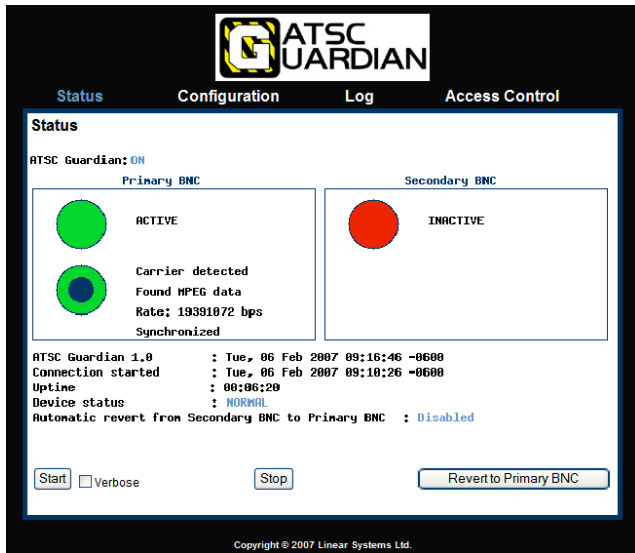
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Screen Shot



**Status Screen of ATSC Guardian
Remote Web interface**

Block Diagram



Ordering Information

ATSC Guardian in a Dell PowerEdge 1950
(RoHS compliant)

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Capabilities

Access Control – Add/Remove authorized users and change passwords to restrict unauthorized access

Configurable Settings – Authorized users can configure the following settings:

- Operational State – Receive data on the primary or secondary input on startup (primary by default).
- Warning pop-up – indicates loss of valid data on the primary input. The pop-up can be enabled or disabled (enabled by default).
- First warning duration – configurable between 0 to 10 seconds (5 seconds default).
- Second warning duration – configurable between 0 to 10 seconds (5 seconds default).
- Automatic switch back to normal – can be enabled or disabled (disabled by default). If disabled, the authorized user must press the 'Return to Primary BNC' button on the Status Screen.
- Time to switch back to primary channel – configurable between 0 and 10 seconds (5 seconds default). This setting is valid only when Automatic switch back to normal is enabled.

Mechanical Bypass Relay – In the event of power failure to the ATSC Guardian, the mechanical bypass relay will connect the primary input to the primary output for continued operation.

Specifications

Standard System

- Dell PowerEdge 1950
- Redundant Power supply
- Includes mechanical bypass relay and secondary input



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