



Tekron Communication Systems

RSS-2AV Video & Stereo-Audio+SAP Automatic Redundancy Switch

The RSS-2AV chassis incorporates two independent (2X1) automatic video/audio switches with separate stereo-audio inputs, plus SAP audio-follow. It is designed to provide redundancy to TV channels received over fiber & other digital transport links in multi-channel redundancy applications. It is versatile with monitoring capabilities to provide redundancy to digital transport channels, for which video sync monitoring is not sufficient.



Each switch module installed in the chassis accepts two (2) video/audio input channels to switch automatically to the backup input channel when the main input video Sync, Black or both Left & Right audios, drop below their respective Threshold level setting. The RSS will switch back automatically to the main input after the faulty signal is restored to a level above its threshold setting.

As in all other Tekron RSS automatic switching and redundancy products, the RSS-2AV incorporates a fail-safe design, that will pass-through the main input channel to the output on loss of power to the RSS station.

The RSS-2AV monitors independently the main video and audio inputs of each switch module (Backup video monitoring is optional) for its automatic switching operation, and for remote alarming & status monitoring over an IP-Network.

It is designed with SNMP protocol for alarming to, and remote monitor/control by Network Operation Center over the Network. In addition, it incorporates an embedded Web-Server to allow regional & local technical personal remote access for status monitoring and switch override & control from a Web-page using standard Web browser. It can also be used to change switch delay settings and disable automatic return & front panel toggle switch.

The RSS-2AV design incorporates built-in delays (before alarming & switching) on signal drop & restoration. For added protection, the Threshold circuit is designed with built-in Hysteresis between drop & restore conditions.

Front panel status LED are available to indicate video and audio presence and switch position for each switch module in the chassis, with a toggle switch for local switch override and control. In addition to the Ethernet remote monitoring/alarm and switch control capabilities, the RSS also integrates a serial (RS-232) port for remote DTMF-tone phone (switch) control over a dial-up telephone line for emergency situations with restricted access.

Tekron RSS products offer unique solutions to signal monitoring & redundancy switching applications in CATV Headend & Hub sites, and Broadcast transmission & translator sites. As such, they address automatic switching applications of RF-Broadband & L-Band feeds, digital ASI/SDI feeds, analog Video/Audio & IF channels, and single TV channels.