



**Tekron Communication Systems**

## **RSS-2B Video & Stereo-Audio +SAP Automatic Redundancy Switch**

The RSS-2B station is designed to switch automatically between three (3) Video and Stereo (Left/Right +SAP) Audio input channels, based on video “Sync” & “black” level and audio presence. It independently monitors main and backup TV channels for its automatic switching operation and alarm monitoring and incorporates adjustable Threshold level & delay with built-in Hysteresis, for each signal being monitored.



The RSS-2B automatic switch is designed for Fail-safe operation, to pass the primary video/audio inputs on power loss. During its operation, unselected video inputs are 75-ohm internally terminated.

When both the main and backup input being monitored drop below their respective video Sync/Black threshold level (or L&R audio levels), the RSS-2B switches automatically to the third external video/audio (emergency) input. It switches back automatically upon signal restoration with a built-in adjustable return delay.

Several configurations are offered to address channel received from a digital source such as DSR (Digital Satellite Receiver) or a Fiber transport feed, in which case the sync is always present. The RSS-2B is offered as a versatile switch which monitors L&R audio, video Sync level as well as video Black presence. It can also be supplied with optional Frame-freeze detection in monitoring the video presence.

Additionally, the RSS-2B can be supplied with an extra audio to switch SAP audio feeds.



The RSS-2B switch can be locally forced to either input from the front panel, or remotely by contact closure from the back of the chassis. Tekron communication also offers remote (Network & Dialup) monitoring and switch control capability as with all of its RSS automatic switching products.

Remote monitoring and switch control is possible over Ethernet/IP Networks with alarm capability and/or over a dial-up telephone line with DTMF-tone phone control. The Ethernet/IP port incorporates SNMP compatible firmware and embedded Web-server for Network Monitoring, alarming and switch control, whereas the RS-232/serial port connected to a modem can be used for remote monitoring & control from the SMC6 (Windows) software, and to control the switch by DTMF-tone phone over the same dial-up connection.

The RSS-2B is designed for redundancy of TV channels received at a Headend or a Broadcast transmission site, for community channel program automation, as well as ENG and channel sharing switching applications.