



Tekron Communication Systems

RSS-2B4.5 Automatic Video/4.5MHz-Audio Switching Station

The RSS-2B4.5 chassis incorporates two independent automatic video switches with separate 4.5MHz audio-follow inputs for switching. It is used for the redundancy of TV channels in CATV Headend and in remote transport link receiving sites.



Each switch accepts two video with separate 4.5-audio inputs to switch automatically to the output based on video sync level. The RSS-2B4.5 monitors independently the main and the back video inputs of each switch for its automatic switch operation and for remote status monitoring and alarm over an IP-Network. An embedded server allows multi-user remote monitoring & switch override/control access, from a Web-page using any Web browser, and SNMP protocol for alarming to NOC (Network Operation Center) & remote monitor/control.

The RSS-2B4.5 monitors separately Main & Backup video (Sync) levels for automatic switching. When backup video input is below its respective threshold level however, the switch remains switched to main input, when this feature is activated from Web page.

The RSS-2B4.5 switches back automatically when video signal is restored above its threshold sync level setting, with a built-in Hysteresis and after an internally set delay. Like all other RSS automatic switching products, the RSS-2B4.5 features passive by-pass to pass-through the main input to the output in the event of power loss to the station.



Each of the RSS-2B4.5 switches is equipped with internal (adjustable) delays before alarm and switching occurs after video signal drop below threshold. A separate internal (adjustable) delay is also available after signal restoration before switching back to the primary input.

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

Tekron RSS products offer unique solutions to signal back-up and redundancy in Headend & Hub sites. They address automatic switching applications of Broadband RF & L-Band feeds, digital ASI feeds, analog Video/Audio & IF channels, and single CATV channels.