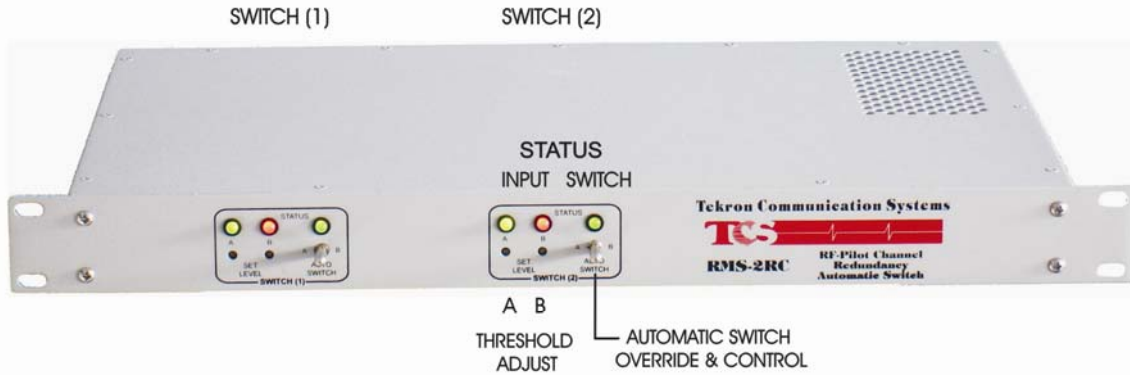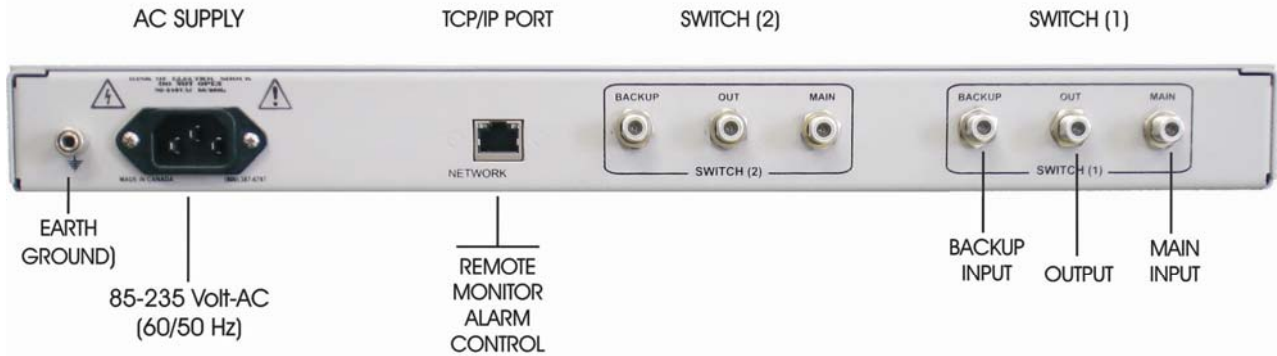# SPECIFICATIONS

Automatic Switch: Two independent 2X1 RF-Broadband passive switch modules
(75-Ohm impedance with F-type connectors)

HUB configuration: 2HB & 2HCT models main input is   configured for monitoring only RF-pilot channel from Broadband   feed, and switch/insert backup input when main input failure is detection.

Frequency Band: Switch Bandpass 5 MHz to 1002 MHz and above

Switch Fail-safe: Switch passes the main input to the output during power loss

Insertion Loss: 1.0 dB +/- 0.25dB from 5MHz to 1002 MHz1

In-Out Isolation: 70dB minimum (Typical 80dB) 5-1002MHz

Return Loss: 20dB minimum Inputs & Output 5-1002MHz
(24dB typical RF-Pilot Band 550-650MHz)

RF-level Monitoring: - Monitors   main-input selected channel   RF-level, with capability of monitoring the channel from Broadband feed
- Monitors backup-input RF-Broadband level independently

Channel Selection: Remote setting of CATV channels 2 to 137 (from Web-page)

Operation Level: +25dBmv to +60dBmv (+10 to +40 dBmv for HUB models)

Monitor Threshold: Separate front panel Threshold setting for main & backup input RF-pilot channel, below which automatic switching is initiated and alarm sent after set delay (See Diagram page 14) (Recommended setting 3dB below nominal level)

Hysteresis: Remote setting in 0.1dB steps 0.0 to 99.9 dB as buffer   added above Threshold level before switch auto-return to main input, to protect against switch flutter with small fluctuation of input RF-level (Default setting 1.0dB)

Switch Delays: Remote   separate delay setting for automatic   switchover & switchback (0–999 seconds) with 1-Second Default setting)

Switch Control: Override automatic switch operation for manual control:
- Local front toggle switch override and switch control
- Remotely via Web-page & SNMP from TCP/IP port

Monitor & Alarm: Status indication of switch position and input levels:
- Front panel status LED indication
- TCP/IP Network SNMP alarm & status monitoring
- Email alarm of status changes
- Web-page status monitoring and alarm settings

Remote settings: Remote internal switch setting from the Web-page:
- Set RF-Pilot channel to be monitored for each switch
- Prevent automatic return to main input automatically
- Ignore backup input status during automatic switching
- Set switch delays and Hysteresis
- IP-address and alarm SNMP & Email settings

Chassis: 1U Rack-mount 19X10X1.75" chassis (Weight 11-12 lbs)

Power Supply: 85-235 Volt-AC (60/50 Hz) or NEG 48V-DC (Optional)
<u>Option:</u> Redundant Power Supply & alarm (DRP-3)
<u>Power consumption:</u> 8Watt Max. (6Watt for RMS-2RC1)

FEATURES & CONNECTIONS

SWITCH (1)   SWITCH (2)

STATUS
INPUT   SWITCH

Tekron Communication Systems

TCS

RMS-2RC   **RF-Pilot Channel**
Redundancy
Automatic Switch

A   B

THRESHOLD   AUTOMATIC SWITCH
ADJUST   OVERRIDE & CONTROL

POWER CONSUMPTION
Max 8 Watt

AC SUPPLY   TCP/IP PORT   SWITCH (2)   SWITCH (1)

BACKUP   OUT   MAIN   BACKUP   OUT   MAIN

NETWORK

SWITCH (2)   SWITCH (1)

EARTH
GROUND)

85-235 Volt-AC   REMOTE
(60/50 Hz)   MONITOR
                        ALARM
                        CONTROL

BACKUP   OUTPUT   MAIN
INPUT   INPUT

NEG 48V - DC
DUAL-REDUNDANT   POWER CONSUMPTION
and   Max 8 Watt
SINGLE SUPPLY

BACKUP   OUT   MAIN   BACKUP   OUT   MAIN

DEFAULT
IP
RESET

NETWORK

SWITCH (2)   SWITCH (1)

-48V DC   -48V DC
GND   GND
SUPPLY (1)   SUPPLY (2)

POWER TERMINAL
- Screw Type
- Wire Gauge   12-22
- Max Current   20A
- Max Voltage   300V

Provided by: Mega Hertz   800-883-8839
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