RMS-2RC
RF-Pilot Redundancy
Dual switch Station

Function Diagram

TCP/IP Port

Network Monitor/Control Interface
- SNMP Protocol
- Web-page monitor/Control
- Email Alerts
- Automatic Switch Settings

DRP
- Dual Redundant Power and Monitoring

Power Supply (1)
110/220V-AC or Neg48V-DC

Power Supply (2)

Backup Input (B)

Switch (2)
- Broadband RF Detector
- Switch Override Manual Control
- Threshold Setting Input-A Input-B
- Remote RF-Pilot Channel Selection from Web-page
- RF-Pilot Channel RF Detector
- SET Channel

Micro Processor
- Status LED
- Input-A Input-B Switch
- Remote Automatic-Switching Hysteresis & Delays from Web-page

RF Output

Unselected input Internally 75-Ohm terminated

Broadband Passive Switching
(5 - 1002MHZ)

Internal Communication

Main Input (A)

Broadband RF Detector

Threshold Setting Input-A Input-B

Remote RF-Pilot Channel Selection from Web-page

Micro Processor
- Status LED
- Input-A Input-B Switch
- Remote Automatic-Switching Hysteresis & Delays from Web-page

RF Output

Unselected input Internally 75-Ohm terminated

Broadband Passive Switching
(5 - 1002MHZ)

Internal Communication

Backup Input (B)

Switch (1)
- Broadband RF Detector
- Switch Override Manual Control
- Threshold Setting Input-A Input-B
- Remote RF-Pilot Channel Selection from Web-page
- RF-Pilot Channel RF Detector
- SET Channel

Micro Processor
- Status LED
- Input-A Input-B Switch
- Remote Automatic-Switching Hysteresis & Delays from Web-page

RF Output

Unselected input Internally 75-Ohm terminated

Broadband Passive Switching
(5 - 1002MHZ)

Internal Communication

Main Input (A)
RMS2RC-1
RF-Pilot Redundancy
Single Switch Station

Function Diagram

TCP/IP Port

Network Monitor/Control Interface
- SNMP Protocol
- Web-page monitor/Control
- Email Alerts
- Automatic Switch Settings

DRP
- Dual Redundant Power and Monitoring
- 110/220V-AC or Neg48V-DC

Power Supply (1)

Power Supply (2)

Internal Communication

Backup Input (B)

Switch (2)

Main Input (A)

Broadband RF Detector

Switch Override
Manual Control
Threshold Setting
Input-A Input-B

Micro Processor

Set Channel

Status LED
Input-A Input-B Switch

Control

Remote RF-Pilot Channel Selection from Web-page

Remote Automatic-Switching Hysteresis & Delays from Web-page

Unselected input
Internally
75-Ohm terminated

RF Output

Broadband Passive Switching
(5 - 1002MHZ)

Internal Communication

75-Ohm terminated
RMS2HB-1
Hub Site
RF-Pilot Redundancy
Single Switch Station

Function Diagram

TCP/IP Port

Network Monitor/Control Interface
SNMP Protocol
Web-page monitor/Control
Email Alerts
Automatic Switch Settings

DRP
Dual Redundant Power
and Monitoring

110/220V-AC or Neg48V-DC

Power Supply (1)

Power Supply (2)

Internal Communication

Modulator Output
Backup Input (B)

RF-Broadband Main Input (A)

Broadband RF Detector

Switch Override
Manual Control

Threshold Setting
Input-A
Input-B

Micro Processor

Status LED
Input-A
Input-B
Switch

Control

Remote RF-Pilot Channel Selection from Web-page

Remote Automatic-Switching Hysteresis & Delays from Web-page

Unselected input
Internally Terminated
75-Ohm

Backup Input RF Output

75-Ohm Terminated

Broadband Passive Switching
(5 - 1002MHZ)

Internal Communication
RMS-2HCT Hub Site Receiver Broadband with RF-Pilot Channel Redundancy

Function Diagram

Network Monitor/Control Interface
- SNMP Protocol
- Web-page monitor/Control
- Email Alerts
- Automatic Switch Settings

DRP Dual Redundant Power and Monitoring
- 110/220V-AC or Neg48V-DC

Power Supply (1)

Internal Communication

TCP/IP Port

Modulator Output
Backup Input (B)

RF-Pilot Channel Redundancy Switch (2)

RF-Broadband Main Input (A)

RF-Broadband Backup Input (B)

Fiber Receiver Broadband Redundancy Switch (1)

RF-Broadband Main Input (A)

Broadband RF Detector

Micro Processor

Status LED
- Input-A
- Input-B

Set Channel

Remote RF-Pilot Channel Selection from Web-page

Threshold Setting
- Input-A
- Input-B

Automatic Switching
- Hysteresis & Delays
- from Web-page

Backup Input RF Output

Remote Automatic-Switching
- Hysteresis & Delays
- from Web-page

Broadband Passive Switching (5 - 1002MHZ)

Unselected input
- Internally
- 75-Ohm terminated

Internal Communication

Broadband RF Detector

Micro Processor

Status LED
- Input-A
- Input-B

Set Channel

Remote RF-Pilot Channel Selection from Web-page

Threshold Setting
- Input-A
- Input-B

Automatic Switching
- Hysteresis & Delays
- from Web-page

Backup Input RF Output

Remote Automatic-Switching
- Hysteresis & Delays
- from Web-page

Broadband Passive Switching (5 - 1002MHZ)

Unselected input
- Internally
- 75-Ohm terminated

Internal Communication

75-Ohm Terminated

Internally 75-Ohm terminated

TCP/IP Port

Internal Communication
Redundant fiber feeds

RMS-2HCT
Redundant Feed Hub and RF-Pilot Channel
Redundancy Switching Station

Tekron RMS-2HCT (Switch#1)

Tekron RMS-2HCT (Switch#2)

RF-Broadband feed

On loss of Pilot signal, RF switch will flip from 75 ohm termination to backup pilot. Any services/video still available on the FOST will remain, as well as those locally inserted (PEG Channels, VOD, HSD, and CDV).

Modulator

New backup Pilot Modulator
Unmodulated CW output set at same level as FOST pilot.
(any modulator capable of CW output)

Provided By: Mega Hertz  800-883-8839  info@go2mhz.com  www.go2mhz.com
Tekron Communication Systems