

# RXS 2150/1x8

## RXS215008FFC000

### Receiver Router (950-2150 MHz)

## General Description:

The **RXS215008FFC000** provides eight RF Sensing Switches and a single 1x8 zero loss switch in a single 3RU enclosure. Each of the RF Sensing Switches utilizes a DPDT relay to switch either the primary or the secondary signal input to the output. The signal is coupled from the primary input, filtered, amplified, and detected to operate the relay. When the input level is above a preset threshold, which is adjustable via the front panel, the relay coil is de-energized and the primary signal path is selected. If the signal falls below the preset threshold, the relay coil is energized and the secondary signal path is selected. Under a no power condition, the unit will default to the primary position.

The outputs of the optical receivers in the primary fiber links are connected to the primary inputs of the sensing switches via rear panel mounted "F" connectors. The outputs of the sensing switches are accessed via rear panel mounted "F" connectors. The output of the optical receiver from the standby optical link is connected to the input of the 8-way splitter via a rear panel mounted "F" connector labeled RX Backup. The outputs of the 8-way splitter are connected to the secondary inputs of the sensing switches. In the event the primary optical link fails, the RXS215008FFC000 will automatically switch the standby optical link to replace the failed primary optical link. The RXS215008FFC000 will send a control signal to the TXS215008FFC000 via RS-422 and route the input of the failed primary optical link to the standby optical link.

A rear panel mounted RJ45 connector provides an Ethernet port for M&C monitoring of the sensing switch positions. Dual AC inputs and dual internal power supplies are included for power redundancy.

Note: All unused RF output ports must have 75  $\Omega$  terminations.

## Specifications:

|                                  |                                      |
|----------------------------------|--------------------------------------|
| <b>Overall Frequency Range:</b>  | 950-2150 MHz                         |
| <b>Impedance:</b>                | 75 $\Omega$                          |
| <b>P1dB (backup):</b>            | +10 dBm                              |
| <b>Detected Frequency:</b>       | 950-2150 MHz                         |
| <b>Detection Level:</b>          | -50 to -20 dBm (adjustable)          |
| <b>Insertion Loss (primary):</b> | -2.5 dB $\pm$ 1.5 dB                 |
| <b>Insertion Loss (backup):</b>  | -2.5 dB $\pm$ 1.5 dB                 |
| <b>Isolation:</b>                | 40 dB                                |
| <b>Return Loss:</b>              | 12 dB                                |
| <b>Threshold Adjust:</b>         | Front panel keypad with LCD          |
| <b>RF Connectors:</b>            | Type-F, 75 $\Omega$                  |
| <b>Power Requirements:</b>       | 100-240 V~, 50/60 Hz                 |
| <b>Power Consumption:</b>        | 70 W                                 |
| <b>Monitor:</b>                  | Ethernet                             |
| <b>Mechanical:</b>               | 3 RU (5.25"H x 19"W x 20"D)          |
| <b>Weight:</b>                   | 20 lbs. gross (boxed), 13.5 lbs. net |

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