

# 4091A

## 1U RF Autosense Fault Switch and Distribution Amplifier



4091A 1U RF Autosense Fault Switch and Distribution Amplifier

### Key Features

- Redundant HOT SWAP power supplies
- 1-20 MHz operation
- Eight signal outputs
- Manual override
- Remote control via Ethernet

The 4091A is a 1U rackmount fault sense switch that accepts two RF inputs and produces eight outputs (chosen from the two inputs). The unit comes standard with a single HOT SWAP AC power supply and can be configured with redundant HOT SWAP AC or DC power supplies. It has LED indicators that display the selected input as well as a control switch that is used to manually operate the switch or place the switch in "auto" mode. When in "auto" mode, the unit automatically switches upon failure of the selected input. In addition to front panel control, the unit can be controlled remotely via the Ethernet port on the rear of the unit.

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## Specifications

Unless otherwise stated, all specifications apply at 10 MHz, +13 dBm input level.

### ELECTRICAL SPECIFICATIONS

- RF Input (2)
  - Frequency: 1 - 20 MHz
  - Level: 1 V RMS nominal into 50Ω
  - Connectors: BNC female
  - Control: Locking Toggle
- RF Output (8)
  - Connectors: BNC female
  - Gain: +0.5 +/- 0.5 dB
  - Harmonics: -40 dBc typ. at +13 dBm in
  - Spurious: <-80 dBc
- SSB Phase noise
  - 1 Hz -135 dBc
  - 10 Hz -145 dBc
  - 100 Hz -155 dBc
  - 1 kHz -163 dBc
  - 10 kHz + -163 dBc
- Control & status
  - Switch between inputs
  - Set to autoswitch on input failure
  - Signal presence on all inputs and outputs
  - Green/Red LEDs on Front Panel
  - Network (RJ-45 connector)

### ENVIRONMENTAL & PHYSICAL SPECIFICATIONS

- Temperature: 0°C to 40°C
- Humidity: 0 to 95% non-condensing
- Power requirements (AC Input): 90 - 264 V AC, 10W, 47 - 63 Hz
- Dimensions: 1U (~1.75" [4.44cm] x 19" [48.26cm] x 12" [30.48cm])
- Weight: 12 lbs [5.40 Kg]

### OPTIONS

- Redundant AC Power Supply

The 4091A is for INDOOR USE ONLY. It is not sealed to prevent moisture from entering the enclosure. Equipment intended to be installed in an enclosed- or open-type equipment rack.

- Pollution Degree II per EN61010-1
- Installation (Over-Voltage) Category II for transient over-voltages per EN 61010-1



Rear view