Signal Selector/Distribution Amplifier
Model 8143

• Oscillator Failure Detection
  Automates Switchcover to
  Backup Frequency Source
• Distribution Outputs Control Up
to 12 Transmitter Channels
• 5-Year Limited Warranty

The Model 8143 Signal Selector/Distribution Amplifier detects failure of either input signal and provides manual or automatic switchover between two frequency sources. The selected input is distributed via 12 buffered output line drivers. In the automatic mode, Channel A is selected when it is present. Switchover occurs when Channel A is removed, when an alarm is sensed, or when a manual selection is made. In manual mode, switchover is operator-controlled.

Performance Specifications

**Frequency Outputs:**
Twelve (12) buffered 10 MHz outputs from the selected input. 600 mV rms sine wave, 50 ohms. Options: 12.8 MHz, 5 MHz, or 1 MHz

**Alarm Outputs:**
Relay contacts SPDT, 2A @ 30 VDC

**Frequency Inputs:**
Two (2) maximum; 10 MHz, 0.10 to 1.0 V rms, 50 ohms. Options: 12.8 MHz, 5 MHz, or 1 MHz

**Alarm Inputs:**
Two (2) maximum; grounding or RS-422 level activation

**Power:**
115 VAC ±15%, 60 Hz; 12 W
12/24 VDC Option: ±11 to 32 VDC; 10 W
48 VDC Option: ±44.2 to 66.2 VDC; 10 W
DC options provide dual fused inputs and reverse polarity protection.

**Physical & Environmental**

**Size/Weight:**
EIA 19" rack W x 3.5" H x 10" D/6 lbs. maximum

**Connectors:**
Frequency outputs: BNC, Alarm outputs: Terminal strip
Frequency inputs: BNC, Alarm inputs: Terminal strip
AC power: 3-prong connector, 7' cord included
DC power: Terminal strip

**Switches:**
Power, manual or automatic mode

**Indicators:**
Alarms, input ready, input selected

**Environmental:**
–30°C to +60°C (–22°F to +140°F) operating range
–40°C to +85°C (–40°F to +185°F) storage range
95% R.H. non-condensing

**Ordering Information**
1. Specify Spectracom Model 8143, plus:
   - **Option 06** for 12.8 MHz inputs and outputs
   - **Option 07** for 5 MHz inputs and outputs
   - **Option 08** for 1 MHz inputs and outputs
   - **Option 11** for rack slides
   - **Option 52** for 12/24 VDC power
   - **Option 54** for 48 VDC power
   
   **Example:** 8143-11-54

**Warranty:**
5-Year Limited Warranty

The warranty period may be dependent on country.

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