

Signal Selector/Distribution Amplifier

Model 8143

- **Oscillator Failure Detection Automates Switchover 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 $\pm 15\%$, 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

¹The warranty period may be dependent on country.