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 ±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.