



# Clock Selector/Distribution Amplifier

## Model 8144

- **Timing Failure Detection Automates Switchover to Backup Source**
- **Double Input (Selector/Distribution Amplifier) or Single Input (Distribution Amplifier)**
- **Twelve Distribution Outputs**
- **User Configurable with Switch Parameters, Alarm Latching,**
- **Bridging of Inputs, DS1 Line Build Out, and DS1 Outputs D4 or ESF**
- **5-Year Limited Warranty**



The Spectracom Model 8144 Clock Selector/Distribution Amplifier detects failure of input clock and provides manual or automatic switchover between two clock sources. The selected input is distributed via twelve buffered output line drivers.

### Performance Specifications

#### Clock Outputs:

Twelve individually buffered DS1 framed all ones, (optionally RS-485 or E1) derived from the selected input. DS1's may be set for ESF or D4 framing and LBO to 655 feet.

#### Clock Inputs:

Two DS1's, with D4 or ESF framing (optionally RS-485 or E1). Selectable bridging or terminating input impedance

#### Reference Switching:

Normally non-revertive, but may be set to give priority to Input Channel A. Switchover occurs with Loss of Signal (LoS) or Alarm Indication Signal (AIS) at the selected reference input; when an external alarm is sensed; or when manual selection is made.

#### Alarm Outputs:

Major and minor alarms activated by LoS, AIS or external alarm input. Relay contacts SPDT, 2A @ 30 VDC

#### External Alarm Inputs:

One for each input channel; grounding or RS-422/485 level activation. Activates switchover and alarm outputs.

#### Power:

115/230 VAC 15%, 50/60 Hz; 15 W (standard)  
 12-24 VDC Option: 11 to 32 VDC; 12 W  
 48 VDC Option: 55.2 VDC 20%; 12 W  
 DC options provide dual fused inputs and reverse polarity protection

#### Physical & Environmental

**Size:** EIA 19" rack W x 3.5"H x 10"D

**Weight:** 6 lbs. maximum

#### Connectors:

Clock I/O: Pluggable terminal strip  
 Alarm I/O: Pluggable terminal strip  
 AC power: 3-prong connector, 7' cord included  
 DC power: Terminal strip

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

**Indicators:** Major & minor alarms, A & B input ready, A or B input selection

#### Temperature:

Major & minor alarms, A & B input ready, A or B input selected

**Humidity:** 95% R.H. non-condensing

### Ordering Information

Config.	Inputs	Outputs
8144-DD	DS1	DS1
8144-DR	DS1	RS-422/485
8144-RD	RS-422/485	DS1
8144-EE	E1	E1
8144-ER	E1	RS-422/485
8144-RE	RS-422/485	E1
8144-RR	RS-422/485	RS-422/485

Specify Model 8144, I/O configuration, and:  
 Option 11 for rack slides.  
 Option 52 for 12-24 VDC power.  
 Option 54 for 48 VDC power.

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