

# 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.

\*The warranty period may be dependent on country.

[www.spectracomcorp.com](http://www.spectracomcorp.com)

USA | 1565 Jefferson Road, Suite 460 | Rochester, NY 14623 | +1.585.321.5800 | sales@spectracomcorp.com

FRANCE | 3 Avenue du Canada | 91974 Les Ulis, Cedex | +33 (0)1 64 53 39 80 | sales@spectracom.fr

UK | 6A Beechwood | Chineham Park | Basingstoke, Hants, RG24 8WA | +44 (0)1256 303630 | info@spectracom.co.uk

February 28, 2014-8144 (G)  
Specifications subject to change or improvement without notice.  
Spectracom is a business of the Orolia Group. ©2010-2014 Orolia USA, Inc.

