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 he 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 selected

Ordering Information

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

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