

TSI-5308 OC-3/OC-12 SOURCE/DISTRIBUTION UNIT



FEATURES

Operates as an OC-3/OC-12 Distribution Unit or OC-3/OC-12 Source

Eight OC-3 or OC-12 Rear Panel SC or ST Type Connector Outputs -8 to -15dBm at 1310 nm.

One OC-3/OC-12 Rear Panel SC or ST Type Connector Input -7 to -32dBm at 1310 nm.

The Distribution Mode OC-3/OC-12 Input is dejittered using Internal Elastic Storage to Obtain Jitter-free OC-3/OC-12 Outputs.

Source Mode Timing Reference can be External DS-1 Bits Clock, STS-1 Input or Internal Reference.

Source Payload Consists of Multiple Copies of External STS-1 Input or Internally Generated STS-1 containing DS-3/M13, C-Bit or Unframed PRBS-15, PRBS-20 or PRBS-23.

Used to Distribute OC-3/OC-12 Signals Consisting of Live Traffic, Video, ATM, and Test Signal Payloads

Input OC-3/OC-12 Bit Error Counting of B1, B2 and FEBE Error Counts Thru RS-232C Interface and Readout of Z1, K1 and K2 Byte Values using the RS-232C Interface.

APPLICATIONS

The TSI-5308 OC-3/OC-12 Source/Distribution Unit finds applications in the factory, test laboratory and central office wherever large numbers of OC-3 or OC-12 signals are required. The TSI-5308 can operate as an OC-3 or OC-12 Distribution unit by accepting an optical laser signal and generating 8 separate optical laser outputs. The TSI-5308 inputs an OC-3 or OC-12 signal, converts it to an electrical equivalent, dejitters the clock and data, buffers the signal and drives 8 outputs through separate rear panel lasers. In the Distribution mode, TSI-5308 units can be cascaded several levels deep to provide even more outputs without accumulating jitter. The TSI-5308 performs bit error counting of B1, B2, FEBE errors as well as extracting values for Z1, K1 and K2 bytes on the optical input. Values can be displayed using the RS-232C interface.

Operating as an OC-3 or OC-12 Source, the TSI-5308 synthesizes the outputs by providing multiple copies (each STS-1 in the OC-3 or OC-12 are identical) of either an internally generated STS-1 containing a DS-3/M13, C-bit or unframed PRBS-15, PRBS-20 or PRBS-23 pattern or a rear panel externally supplied STS-1 signal. When operating as a Source the TSI-5308 gets its timing reference from the internal oscillator, or from an external DS-1 Bits clock or from the external STS-1 input signal. The TSI-5308 can be setup and controlled using the rear panel switches. The RS-232C interface permits complete control of the unit.

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SPECIFICATIONS

Front Panel Indicators (LEDs)

Power On (Green)
Loss of Light Input (Red)
OC-3 Outputs Mode (Green)
OC-12 Outputs Mode (Green)

Rear Panel Switches

OC-3 or OC-12 Selection
Source or Distribution Selection

OC-3/OC-12 Outputs

Eight SC Type Connectors
Eight ST Type Connectors (Optional)
1310 nm, -8 to -15dBm

OC-3/OC-12 Input

SC Type Connector
Eight ST Type Connectors (Optional)
1310 nm, -7 to -32 dBm

Internal Source Reference

Accuracy +/- 20 ppm

BITS Clock Input

DSX-1 Level
3 Position Terminal Block

EXT STS-1 Input

STXS-1 Level
BNC Connector

RS-232C Interface

DB-9 Male, 9600 baud, 1 Start, 1 Stop, 8 Data Bits, No Parity

General

Power: -24/48Vdc, 25 Watts.
Dimensions: 1.75"H x 14.25"W x 8.25"D
Rack Mount: 19" or 23"
Weight: 5 pounds
Temperature: 0C to 50C Operating,
-25C to 75C Storage

ORDERING INFORMATION

TSI-5308 OC-3/OC-12 Source/Distribution Unit

SC Connectors
19" Rack Mount, -24/48 Vdc

TSI-5308-1 OC-3/OC-12 Source/Distribution Unit

ST Connectors
19" Rack Mount, -24/48 Vdc

P/N 300112 23" Rack Adapter Kit for TSI-5308

TELESYNC reserves the right to update the product specifications without notice.

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