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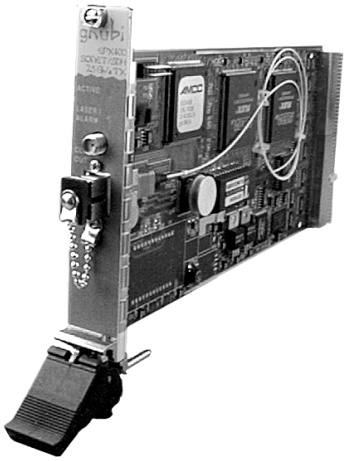
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- SONET
- 2.488 Gbps

EPX400

OC48 Transmitter Test Module



Insertion

- Section Trace Message
- Errors
  - Payload bit, Physical Layer (Random), Section (B1), Line (B2), Path (B3)
  - Insert single error or rates (1E-3 to 1E-10)
- Alarms
  - LOS, LOF, SEF, LPS

Options

- 1310 nm laser
  - P_o = -6 dBm (typical, SR)
  - P_o = -3 dBm (typical, IR-1)
  - P_o = 0 dBm (typical, LR-1)
- 1550 nm laser
  - P_o = 0 dBm (typical, LR-2)
- SC, ST, or FC connector

Optical Interface

- Wavelength: 1310 or 1550 nm
- Conforms to GR-253 Eye Mask
- Laser enable via software

Timing

- From EPX100 Clock Module
  - Po = dBm
- As received (Recovered from adjacent receiver)

Payload Generation

- Payload Mappings
  - STS-1, STS-3c, STS-12c, STS-48c
- 2^{15}-1, 2^{20}-1, 2^{23}-1 PRBS
- Fixed, 8-bit user word

The EPX400 is an OC-48 Optical Transmitter Module designed for the EPX16 Multichannel Telecom Tester.

Seventeen EPX400s can be installed in one EPX16 Tester providing an expandable, multichannel test solution.

The EPX400 generates an OC-48 signal consisting of a single STS-48c payload containing a common PRBS or an 8-bit user word.

LOS, LOF, LPS, and SEF alarm conditions can be inserted.

Errors in the physical layer signal and B1 section overhead byte can be injected at rates or as a single event.

Like all EPX16 test modules, the EPX400 can be run remotely via any Web browser or customer developed software.

Specifications are subject to change without notice. ◆ Visit our web site for latest information. ◆ Rev: April 2000

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