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DS3 Transceiver

gnubi's™ electrical test modules are ideal cost-effective, multi-channel solutions for an equipment manufacturer's production and verification labs in the metro and long haul markets.

EXPANDABLE MULTIPLE RATE TESTING

Unlike other test equipment, gnubi's test products give you the flexibility to create the test applications that you need now and the expandability to grow with your testing needs in the future. You can mix the DS3 Transceiver with other test modules in a single chassis for multiple rate testing.

SIMULTANEOUS MULTI-PORT TESTING

With the Quad DS1 Port Module, you can install as many as 17 modules for simultaneous multi-port testing. Using EPXam™ tools such as Group Manager, Test Controls, or Script Runner, control multiple instances of the same test simultaneously. Or conduct different tests at the same time.

EPX300 TRANSCEIVER

The EPX300 Transceiver supports DS3 signal generation and monitoring. It is designed for all of gnubi's chassis models.

PAYLOAD GENERATION AND MONITORING

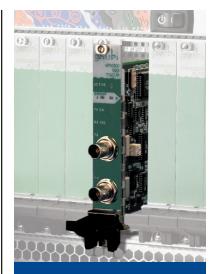
The EPX300 module provides payload generation and monitoring. Features include alarm and error insertion and monitoring, and data pattern selection.

EASY TO USE

You can start testing quickly and easily with the EPXam graphical user interface. Other ease-of-use features include saving and restoring configurations, connecting remotely with a web browser, scripting, logging, and sharing test resources with others.

UPGRADABLE

As new features are developed for gnubi's test modules, download the upgrades from our website. Visit www.gnubi.com to learn about the latest features and upgrades.



Features

- Transmit and monitor at 44.736 MHz
- Payload generation and monitoring
- Test multiple rates and protocols within a single chassis
- Full-featured graphical and command-line user interfaces
- Log alarm and error statistics
- Multi-user, remote access via web browser

Applications

- Production, validation, and metro market applications that test multiple rates and channels
- Add/drop multiplex and demultiplex
- Live traffic monitoring
- Transmit and receive BERT

Specifications

DS3 Transceiver

Installation All gnubi chassis models; uses one slot Signal Rates DS3 44.736 MHz Interface Line Code B8ZS Transmit Selectable LBO Receive Auto equalization, peak level detect, frequency measurement Connector 75 Ohm unbalanced BNC Timing References EPX100 Clock Module BITS input, external input, internal As Received Recovered clock from receiver port Internal On-board oscillator (+/- 50 ppm) Framing Framed M13, C-Bit Channelized, unchannalized. Unframed LOS, 00F, Idle, AIS, Yellow, LPS Alarm Monitoring LOS, 00F, Idle, AIS, Yellow, LPS Error Insertion Types BPV, Frame, FEBE, Path (CP Bit), Parity (C Bit), Pattern Bit Errors Error Monitoring Types BPV, Frame, FEBE, Path (CP Bit), Parity (C Bit), Pattern Bit Errors Error Monitoring Types BPV, Frame, FEBE, Path (CP Bit), Parity (C Bit), Pattern Bit Errors	Model	EPX300	DS3 Transceiver
Interface Line Code Transmit Selectable LBO Receive Auto equalization, peak level detect, frequency measurement Connector 75 Ohm unbalanced BNC Timing References EPX100 Clock Module BITS input, external input, internal As Received Recovered clock from receiver port Internal On-board oscillator (+/- 50 ppm) Framing Framed M13, C-Bit Channelized, unchannalized. Unframed Alarm Insertion Alarm Monitoring Error Insertion Types BPV, Frame, FEBE, Path (CP Bit), Parity (C Bit), Pattern Bit Errors Rates Insert a single error or a burst of errors, or insert errors at 1E-3 to 1E-9 rates Error Monitoring Types BPV, Frame, FEBE, Path (CP Bit), Parity (C Bit), Pattern Bit Errors	Installation	All gnubi chassis models; uses one slot	
Transmit Selectable LBO Receive Auto equalization, peak level detect, frequency measurement Connector 75 Ohm unbalanced BNC Timing References EPX100 Clock Module BITS input, external input, internal As Received Recovered clock from receiver port Internal On-board oscillator (+/- 50 ppm) Framing Framed M13, C-Bit Channelized, unchannalized. Unframed Alarm Insertion LOS, 00F, Idle, AIS, Yellow, LPS Alarm Monitoring LOS, 00F, Idle, AIS, Yellow, LPS Error Insertion Types BPV, Frame, FEBE, Path (CP Bit), Parity (C Bit), Pattern Bit Errors Error Monitoring Types BPV, Frame, FEBE, Path (CP Bit), Parity (C Bit), Pattern Bit Errors Types BPV, Frame, FEBE, Path (CP Bit), Parity (C Bit), Pattern Bit Errors	Signal Rates	DS3	44.736 MHz
Receive Auto equalization, peak level detect, frequency measurement Connector 75 Ohm unbalanced BNC EPX100 Clock Module BITS input, external input, internal As Received Recovered clock from receiver port Internal On-board oscillator (+/- 50 ppm) Framing Framed M13, C-Bit Channelized, unchannalized. Unframed LOS, OOF, Idle, AIS, Yellow, LPS Alarm Monitoring LOS, OOF, Idle, AIS, Yellow, LPS Error Insertion Types BPV, Frame, FEBE, Path (CP Bit), Parity (C Bit), Pattern Bit Errors Rates Insert a single error or a burst of errors, or insert errors at 1E-3 to 1E-9 rates Error Monitoring Types BPV, Frame, FEBE, Path (CP Bit), Parity (C Bit), Pattern Bit Errors	Interface	Line Code	B8ZS
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Alarm InsertionLOS, OOF, Idle, AIS, Yellow, LPSAlarm MonitoringLOS, OOF, Idle, AIS, Yellow, LPSError InsertionTypesBPV, Frame, FEBE, Path (CP Bit), Parity (C Bit), Pattern Bit ErrorsRatesInsert a single error or a burst of errors, or insert errors at 1E-3 to 1E-9 ratesError MonitoringTypesBPV, Frame, FEBE, Path (CP Bit), Parity (C Bit), Pattern Bit Errors	Framing	Framed	M13, C-Bit
Alarm Insertion LOS, OOF, Idle, AIS, Yellow, LPS LOS, OOF, Idle, AIS, Yellow, LPS Types BPV, Frame, FEBE, Path (CP Bit), Parity (C Bit), Pattern Bit Errors Rates Insert a single error or a burst of errors, or insert errors at 1E-3 to 1E-9 rates BPV, Frame, FEBE, Path (CP Bit), Parity (C Bit), Pattern Bit Errors			Channelized, unchannalized.
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Rates Insert a single error or a burst of errors, or insert errors at 1E-3 to 1E-9 rates Types BPV, Frame, FEBE, Path (CP Bit), Parity (C Bit), Pattern Bit Errors	Alarm Monitoring		LOS, OOF, Idle, AIS, Yellow, LPS
Error Monitoring Types BPV, Frame, FEBE, Path (CP Bit), Parity (C Bit), Pattern Bit Errors	Error Insertion	Types	BPV, Frame, FEBE, Path (CP Bit), Parity (C Bit), Pattern Bit Errors
		Rates	Insert a single error or a burst of errors, or insert errors at 1E-3 to 1E-9 rates
	Error Monitoring	Types	BPV, Frame, FEBE, Path (CP Bit), Parity (C Bit), Pattern Bit Errors
Data Patterns PRBS True: 2 ¹⁵ -1, 2 ²⁰ -1, 2 ²³ -1	Data Patterns	PRBS	True: 2 ¹⁵ -1, 2 ²⁰ -1, 2 ²³ -1
Other 1-24-bit user pattern, live traffic (monitor only), All ones (AIS), All zeroes, 1100 pattern,		Other	1-24-bit user pattern, live traffic (monitor only), All ones (AIS), All zeroes, 1100 pattern,
alternating 10 pattern			alternating 10 pattern
Performance Data Alarms and Errors Alarm history, error counts, and error ratios	Performance Data	Alarms and Errors	Alarm history, error counts, and error ratios
Operating Temperature 0° to 40° Celsius, non-condensing	Operating Temperature	0° to 40° Celsius, non-	condensing
Warranty and Service Standard 1 year parts and labor	Warranty and Service	Standard	1 year parts and labor
Extended Service Plan available		Extended	Service Plan available

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