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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

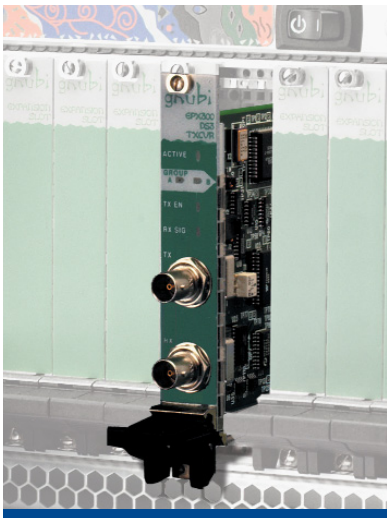
The EPX300 module provides payload generation and monitoring. Features include alarm and error insertion and monitoring, and data pattern selection.

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

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Specifications

DS3 Transceiver

Model	EPX300	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	
Alarm Insertion		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
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, alternating 10 pattern
Performance Data	Alarms and Errors	Alarm history, error counts, and error ratios
Operating Temperature	0º to 40º Celsius, non-condensing	
Warranty and Service	Standard	1 year parts and labor
	Extended	Service Plan available

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gnubi communications, L.P. • 17919 Waterview Parkway, Dallas, Texas 75252-8011 • Phone 972.836.0100 • Fax 972.836.0174
Gnubi Communications GmbH & Co. KG • Ludwig-Erhard-Str. 52-56, D-72760 Reutlingen, Germany • Phone +49 7121-62873-0 • Fax +49 7121-62873-29

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