



## 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

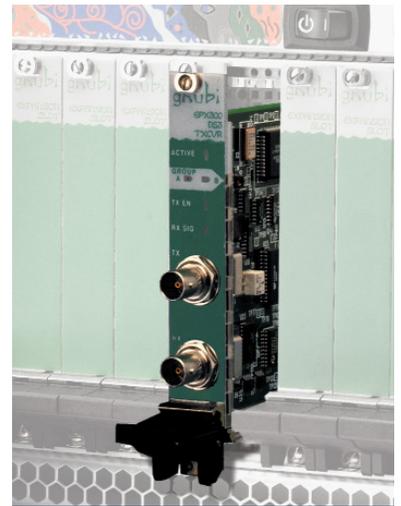
The EPX300 module provides payload generation and monitoring. Features include alarm and error insertion and monitoring, and data pattern selection.

### 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](http://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

<b>Model</b>	EPX300	DS3 Transceiver
<b>Installation</b>	All gnubi chassis models; uses one slot	
<b>Signal Rates</b>	DS3	44.736 MHz
<b>Interface</b>	Line Code	B8ZS
	Transmit	Selectable LBO
	Receive	Auto equalization, peak level detect, frequency measurement
	Connector	75 Ohm unbalanced BNC
<b>Timing References</b>	EPX100 Clock Module	BITS input, external input, internal
	As Received	Recovered clock from receiver port
	Internal	On-board oscillator (+/- 50 ppm)
<b>Framing</b>	Framed	M13, C-Bit Channelized, unchannelized.
	Unframed	
<b>Alarm Insertion</b>	LOS, OOF, Idle, AIS, Yellow, LPS	
<b>Alarm Monitoring</b>	LOS, OOF, Idle, AIS, Yellow, LPS	
<b>Error Insertion</b>	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
<b>Error Monitoring</b>	Types	BPV, Frame, FEBE, Path (CP Bit), Parity (C Bit), Pattern Bit Errors
<b>Data Patterns</b>	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
<b>Performance Data</b>	Alarms and Errors	Alarm history, error counts, and error ratios
<b>Operating Temperature</b>	0° to 40° Celsius, non-condensing	
<b>Warranty and Service</b>	Standard	1 year parts and labor
	Extended	Service Plan available

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