EDS-1G

Ethernet Delay Simulator

10/100/1000 Copper or Fiber

FEATURES / BENEFITS

- √ Hardware Architecture Providing High Throughput Performance and Repeatable Results
- √ Interface - 10/100/1000 and available in copper or fiber
- √ Very Precise Emulation of Network Delays / Impairments
- √ Validate and Optimize your Network before Deployment to avoid Costly Application issues
- √ Easy to use - 10/100/1000 Ethernet GUI interface
- √ Bandwidth - 300bps to 1000Gbps in 1bps increments
- √ Delay - 0 ms to 10 sec. in 0.1ms increments, settings for Constant, Uniform and Normal
- √ Packet Loss, Re-Ordering, Background Traffic
- √ Other Features - Roaming Delay Feature, Real time traffic graph and Network Statistics
- √ Approvals - UL, CSA, CE,CCC, FCC and RoHS
- √ 1U Sturdy Rack Mount Enclosure, 90-240VAC

DESCRIPTION

The EDS-1G is an Ethernet Delay Simulator allowing users to test/stage critical network equipment by altering bandwidth, latency, packet loss, congestion and other important link impairments over 10/100/1000 copper or fiber Ethernet.

The EDS-1G can emulate two individual links simultaneously at rates up to 2 GbE, making it ideal for multiple test configurations

The EDS-1G is a must have test tool for product development / demonstrations, network validation, VoIP, benchmark testing, video / IPTV simulation and website performance.

The EDS-1G hardware architecture is very powerful and is coupled with custom software presenting an easy to use GUI interface. The EDS-1G operates from a web browser and the user has no cumbersome software or confusing licenses to deal with for secure operation.

The EDS-1G can act as a bridge or a router in the users network. The user confi gures the unit via the GUI interface using a standard web browser. The GUI is fast and simple to use. All commands and settings are displayed prominently.Simply set the band width, delay and any traffic impairments if required. The user is presented with the results in real time and in a graph.

By using the EDS-1G in place of or in series with a real data link a wide variety of error conditions can be introduced under controlled and testable conditions. The unit is an excellent choice for validating, evaluating new products and technologies.

The EDS-1G is housed in a sturdy 1U high metal enclosure which can be rack mounted. It is powered by an integrated 90-240V 50/60Hz power supply.

The EDS-1G has a three year warranty that includes basic user support. During the three year support period users also receive normal maintenance software releases free of charge. We do offer customization for special requirements.

In the event of repair, we offer a 24-48 hour turnaround on warranty repairs.

SPECIFICATIONS

Typical Application
Interconnection of two or four 10/100/1000 Ethernet devices simulating bandwidth, latency, packet loss and congestion on two independent LAN channels

Data Interface
10/100/1000, copper or fi ber up to 4 ports and two independent 2-Port Delay engines

Data Rates
300bps - 1000Mbps in 1bps increments, bidirectional or split speed on each LAN port

Configuration Port(s)
Two Independent 10/100/1000 Ports

Password Protection
Implemented via user 10/100/1000 MGMT Ports

LAN Link Throughput
Full Line Rates on Packets larger than 512K

Emulated Latency
0 ms to 8 sec. in 0.1ms increments, settings for constant, uniform or normal

Emulation Profiles
Each link is capable of five independent delay scheules via the profile scheduler

Packet Loss
0 to 100% in increments of 0.001%

Background Traffic
0 to 100% in increments of 0.001%
Burst from 0 to 10000

Packet Re-ordering
Settings for Probability % and Delay 0 to 8000 ms

Duplication
Settings for 0 to 100% (min 0.001)

Queue Depth
Range of 65 to 100,000 selectable for Packets, kilobytes or miliseconds

Framing Overhead
Settings for HDR + FCS, HDR + FCS, preamble, pad and Custom

Custom Profiles
Settings for five user defined profiles with run time scheduler time settings or free run

Power Source
AC Mains: 90-240VAC @ 10%, 50/60Hz

Environmental
Operating Temperature....32º to 104º F (0º to 40º C)
Relative Humidity.....5 to 85% Non-Condensing
Altitude.....0 to 10,000 feet

Dimensions
Height ..... 1.70 inches (43 mm)
Width ..... 17.20 inches (437 mm)
Depth ..... 9.8 inches (249 mm)

Gross Weight
12 lbs (5.44 kg)

Warranty
Three Years, Return To Factory

Regulatory Approvals
UL, CSA, CE, CCC, FCC and RoHS

ORDERING INFORMATION

Main Unit Part Number: 207000
Model: EDS-1G
Description: Ethernet Delay Simulator

Part Number: 226000
Model: 4-Port 1G Copper
Description: 4-Port 10/100/1000 Copper Interface

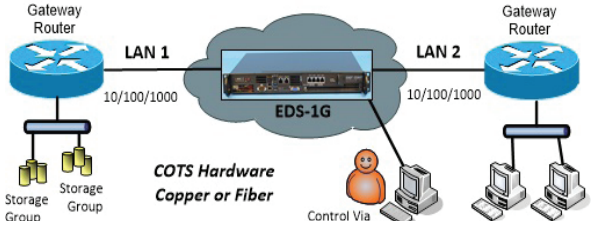
Part Number: 226001
Model: 2-Port 1G Fiber
Description: 2-Port 10/100/1000 Fiber Interface

Other East Coast Datacom, Inc Products

EDS-10G, 10/100/1000, 10G & 40G Chassis
PDS-1G, Portable Delay Simulator
EDS-BGP, BGP Network Delay Simulator
RDS-PLUS, Serial / TELCO Delay Simulator

TYPICAL APPLICATION

Ethernet Delay Simulator, EDS-1G
Emulates Bandwidth, Latency, Loss and Congestion
Fast, Easy to use GUI Interface



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