PDS-1G, Portable Delay Simulator
World's Smallest Portable Network Delay Simulator

FEATURES / BENEFITS

√ **Ideal for Software Developers, Trade Shows, Customer Demonstrations**

√ **Emulation of Network Delays and Impairments**

√ **Validate and Optimize your Network before Deployment to avoid Costly Application issues**

√ **Supports MPLS**

√ **Interface - 10/100/1000 Gigabit Ethernet Interfaces**

√ **Easy to use - 10/100/1000 Ethernet GUI interface**

√ **Bandwidth - 300bps - 1000Gbps in 1bps increments**

√ **Delay - 0 ms to 8 sec. in 1ms increments**

√ **Packet Loss, Re-Ordering, Background Traffic**

√ **Queue Depth - Settings for Packets, Kb or Ms**

√ **Real time traffic graph and Statistics**

√ **Approvals - UL, CSA, CE, CCC, FCC and RoHS**

√ **MINI Desktop Emulator, 90-240VAC**

DESCRIPTION

The PDS-1G is a Portable 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 Ethernet.

The PDS-1G is the smallest portable latency emulator on the market with no user restrictions for bandwidth, backed with a 3-year warranty and free upgrades.

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

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

The PDS-1G can act as a bridge or a router in the users network. The user configures 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 congestion if required. The user is presented with the results in real time and in a graph.

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

The PDS-1G is housed in a sturdy metal enclosure. It is powered by a 90-240V 50/60Hz power supply. The PDS-1G has a three year warranty and a 24 hour turnaround on warranty repairs.

SPECIFICATIONS

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

Password Protection
Implemented via the user 10/100 Management Port and factory reset via the RS-232 Serial Port

Configuration Port
10/100 Ethernet Port

Data Interface on Delay Ports
10/100/1000, 1GbE Ethernet, 2 or 4-Ports Total

Link Rates
300bps - 1 GbE in 1bps increments, bi-directional or split speed, bps, Kbps, Mbps or Gbps

Link Throughput
Varies based upon packet size; typical TCP/UDP 1500 packets 1000Mbps throughput

Emulated Latency
0 ms to 8 sec. in 1ms increments, settings for constant, uniform or normal

Emulation Settings
Each link is capable of 5 independent delay settings via the software scheduler

Emulation Statistics
Each link is capable of independent output statistics settings via the software scheduler

Packet Loss
0 to 100% in increments of 0.001%

Re-Ordering
Settings for Probability & Delay Min/Max

Background Traffic
0 to 100% in increments of 0.001%, settings for LAN Utilization and Bust Size

Roaming Delay
High and Low Delay coupled with bandwidth over a user defined time
period recorded to CD Flash Drive

Queue Depth
User selectable settings for Packets, Kb or Ms

Front Panel Indicators
LAN Ports, Activity, Flash Drive, Power

Power Source
AC Mains: 100-240VAC @ 10%, 50/60Hz, 0.16/0.08A, Auto Range

MTBF
90,000 Hours

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 .... 1.37 inches (35 mm)
Width .... 6.3 inches (160 mm)
Length ....4.1 inches (104 mm)

Warranty
Three Years hardware, includes software support and software feature upgrades/improvements

Software Upgrades
Administered via the LAN user management Port

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

Web Browser Compatibility
Explorer, FireFox, Opera, Google Chrome, Safari

ORDERING INFORMATION
Part Number: 234000
Model: PDS-1G_4
Description: PDS-1G Portable Delay Simulator, 4-Ports

Part Number: 240000
Model: PDS-1G_2
Description: PDS-1G Portable Delay Simulator, 2-Ports

INCLUDED WITH EACH UNIT:
1) Operations Manual
2) U.S.A. Grounded Power Cord, Part # 713015
3) 12VPower Supply
5) Three Ethernet Cables
6) One Ethernet Cross Over Cable
   Optional Power Cords
A) United Kingdom, Part # 713016
B) Continental Europe, Part # 713017
C) Other: Specify Country on Purchase Order

Other East Coast Datacom Products
RDS-PLUS, Serial Network Latency Simulator