**DESCRIPTION**

The PDS-1/10G Portable Delay Simulator allows network impairments for bandwidth restriction, latency, jitter, loss and re-ordering at link rates up to 10GbE. The PDS-1/10G allows changes-on-the-fly and has a real-time statistic screen with a packet counter reset. The unit supports 1G or 10G network emulation for one low cost.

The versatile PDS-1/10G is easily portable in a laptop case, it allows desk or bench top testing, wall mount or 1U Rackmount installation with a unique compact enclosure design. The unit is configured via a Graphical User Interface(GUI) and has no cumbersome software to install. The unit is backed with a strong 3-year warranty including maintenance software upgrades. The PDS-1/10G is a must have test tool for product development / demonstrations, network validation, VoIP, benchmark testing, video / IPTV simulation and website performance.

The PDS-1/10G is capable of any port LAN to LAN emulation or create up to ten VLAN emulations within a single LAN, each with its own impairments.

The PDS-1/10G can act as a bridge or a router in the users test bed or 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 link rate, delay and any other impairments as needed. The user is presented with the results in real time and in a graph.

By using the PDS-1/10G 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-1/10G is housed in a sturdy metal enclosure which can be rack mounted. It is powered by an external 90-240V 50/60Hz power supply with 12VDC output. The unit has a three year warranty.
Application
An embedded box appliance that will mimic the behavior of a WAN/LAN network, inserted between LAN segments supporting Bridge or Routing functions with network impairments such as bandwidth, delay, loss & re-ordering

Configuration Management Ports – GUI Access
Two Independent fixed 10/100/1000 Ethernet Ports

Bridge or Routing Support
All emulations support Bridge or Subnet Routing

Emulation Interfaces
10/100/1000 Copper or Fiber
10G with Optional SFP+ Inserts

Emulation Bandwidth Link Rates
100bps - 10GbE bi-directional or split speeds, Kbps, Mbps or Gbps

Emulated Latency Settings
Constant: 0 to 10 Seconds, Decimal Format Supported
Also Supports Uniform, Exponential & Inter-Packet

Emulation Impairments
Packet Loss: 0 to 100%, Decimal Inputs
Packet Re-Ordering: 0 to 100%, Decimal Inputs
Jitter: By use of different delay options
Bandwidth Restriction

VLAN Emulation Support
Create up to ten C-VLAN emulations within a single LAN, each with its own impairments

Link Throughput
Line Rate for 10/100/1000
Line rate for 10G, frames to 512 bytes
10G frames for 64/128 at 6.5G & 8.5G ** Under Full Load

Emulation Statistics
Each link is capable of real-time statistics via GUI

Password Protection
Implemented via the user LAN Management Port

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

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: H x W x D
1.70(43mm) x 10.00(254mm) x 8.90(226mm)

Weight
6 Pounds, 2.721Kg

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

Software Upgrades
Administered via the LAN User Management Ports

Web Browser Security & Compatibility
Supports Google Chrome and FireFox

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

ORDERING INFORMATION
Part Number: 234000
Model: PDS-1/10
Description: PDS-1/10 Portable Delay Simulator, Base Unit

Part Number: 226000
Model: 4-Port 10/100/1000 Copper NIC Card

Part Number: 226009
Model: 2-Port 10/100/1000 with SFP+ NIC Card

Part Number: 226007
Model: 2-Port 10G with SFP+ NIC Card

Part Number: 226004
Model: SFP+ Optical Insert, SR, 10GbE Short Range
850 Multimode Fiber, LC Connector

Part Number: 234006
Model: Kit, 1U Rackmount W/Power Supply Shelf

INCLUDED WITH EACH UNIT:
1) Operations Manual
2) U.S.A. Grounded Power Cord, Part # 713015
3) 12VPower Supply

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
(Supports all serial interfaces, T1, E1, DS3 ect..)

EAST COAST DATACOM DESIGNS AND MANUFACTURES DATA COMMUNICATION EQUIPMENT FOR YOUR NETWORK REQUIREMENTS.
System Setting Tab
Allows the WanRaptor Box ID Set & System Date/Time. Allows user to set IP Management Port Addresses. Updates and Security allows Updates & System Licence type Trial or Full

System Performance Tab
Allows fast and accurate feedback to the user on system processor cores usage, memory and disk
NEW VLAN SUPPORT

WanRaptor®
Network Latency Emulator

Create Multiple VLAN Emulations
Each with Different Impairments for
Latency, Loss, Jitter & Re-Ordering

VLAN 10
75ms Delay
10.10.10.1/24

VLAN 20
100ms Delay
20.20.20.1/24

VLAN 30
150ms Delay
30.30.30.1/24

LAN LINK 1
10/100/1000
10G, 25G, 40G
10/1

LAN LINK 2
10/100/1000
10G, 25G, 40G
10/2

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EXAMPLE: VLAN STREAMS SENT FROM EXFO TO WANRAPTOR
WanRaptor, Network Latency Emulator 10G Test Results
VLAN Test Results - 10 VLAN's with bi-directional 68byte Frame Traffic
** We split a 10Gbe Fiber link into ten VLAN's **
** Each VLAN has an extra 10ms Delay added for demonstration **

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