

FEATURES / BENEFITS

- √ Ideal for Software Developers, Trade Shows, Customer Demonstrations, Lab Bench Testing
- √ Emulation of Network Delays and Impairments
- √ Validate and Optimize your Network before Deployment to avoid Costly Application issues
- √ Line Rate Performance in Bridge or Route Modes
- √ Interfaces Available- 10/100/1000 or 10G
- √ Easy to use GUI interface
- √ Bandwidth 300bps to 10G in 1bps increments
- √ Delay 0 ms to 10 sec. in 1ms or Decimal increments
- √ Supports Packet Loss and Re-Ordering
- √ Allows decimal entry and changes-on-the-fly
- √ Supports Bandwidth Restriction
- √ Real time Traffic Graph and Statistics
- √ Built-in Scheduler
- √ Supports 90-240VAC with UL/ CSA/TUV

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.

SPECIFICATIONS

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....32° to 104° F (0° to 40° 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-1/10G 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..)

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE



EAST COAST DATACOM, INC.

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EAST COAST DATACOM DESIGNS AND MANUFACTURES DATA COMMUNICATION EQUIPMENT FOR YOUR NETWORK REQUIREMENTS.

Overview of the WanRaptor™ Network Emulator User Interface MGMT1 MGMT2 ENS7F3 ENS7F2 ENS7F1 ENS7F0 A Default Rules Profile Settings Bridge/Route **Emulation Screen** ens7f1 -> ens7f0 ens7f0 -> ens7f1 Set different configuration: Delay Settings Delay Settings Delay Type Delay Type Constant **Allows Decimal Entry** Delay Value Delay Value 25.7 ms 35.2 ms Range: 0-12000ms Range: 0-12000ms Loss Settings Loss Settings Packet Loss Rate Loss Type Packet Loss Rate Loss Type 0.001 0 % Packet loss rate Packet loss rate Range: 0-100% Range: 0-100% Bandwidth Settings Bandwidth Settings Bandwidth Bandwidth Note: use Kbps when setting Bandwidth Note: use Kbps when setting Bandwidth 1 1 at rates below 10 Mbps at rates below 10 Mbps Range: OKbps-1Gbps Range: 0Kbps-1Gbps Packet Reordering Settings Packet Reordering Settings ** Each VLAN has an extra 10ms Delay added for demonstration ** ENS7F1 ENS7F0 1Gbps 1Gbos 1Gbps 1Gbps 1Gbos 1Gbps ens7f3->ens7f2 Profile: 1G_Bridge 7F3-7F2 Mode: bridge Bandwidth: 1 Gbps Loss: 0% [plr] Reorder Delay: 0ms Reorder Prob: 0% Delay: const Value: 25.3ms **Dropped Bytes** Reordered Bytes Role Frames Bytes **Dropped Frames** 3856375 0 (0%) 0 (0%) Receiver 5853974402 0 (0%) 0 (0%) 0 (0%) 0 (0%) 0 (0%) 0 (0% Transmitter Real Time Stat / Log Screen 30 seconds ▼ 770.913 Mbps O Q + D D X A T - E 63.48 Kpps (pbs) 1G 0 Losses[bytes] thouse 0.5G Losses[packets] ens7f2->ens7f3 Profile: 1G_Bridge 7F3-7F2 Mode: bridge Bandwidth: 1 Gbps Loss: 0% [plr] Reorder Delay: 0ms Reorder Prob: 0% Delay: const Value: 25.3ms Role **Dropped Frames Dropped Bytes** Reordered Bytes 3856323 5853893952 0 (0%) 0 (0%) 0 (0%) 0 (0%) Transmitter 3854679 5851398360 0 (0%) 0 (0%) 0 (0%) 0 (0%) 30 seconds ▼ 770.816 Mbps Bit Rate OQ+BEX# 63.473 Kpps (sdq Frame Rate 0 Losses[bytes] 0 Losses[packets] 100 110

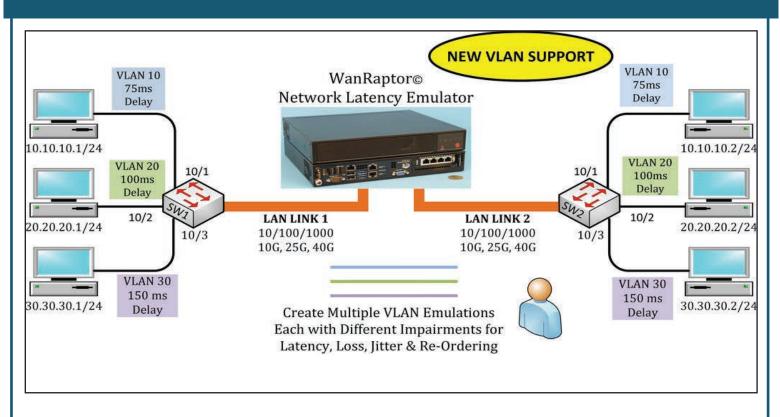
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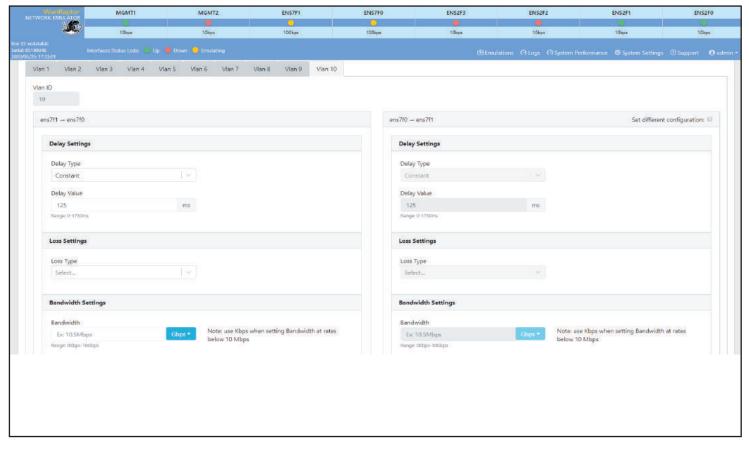
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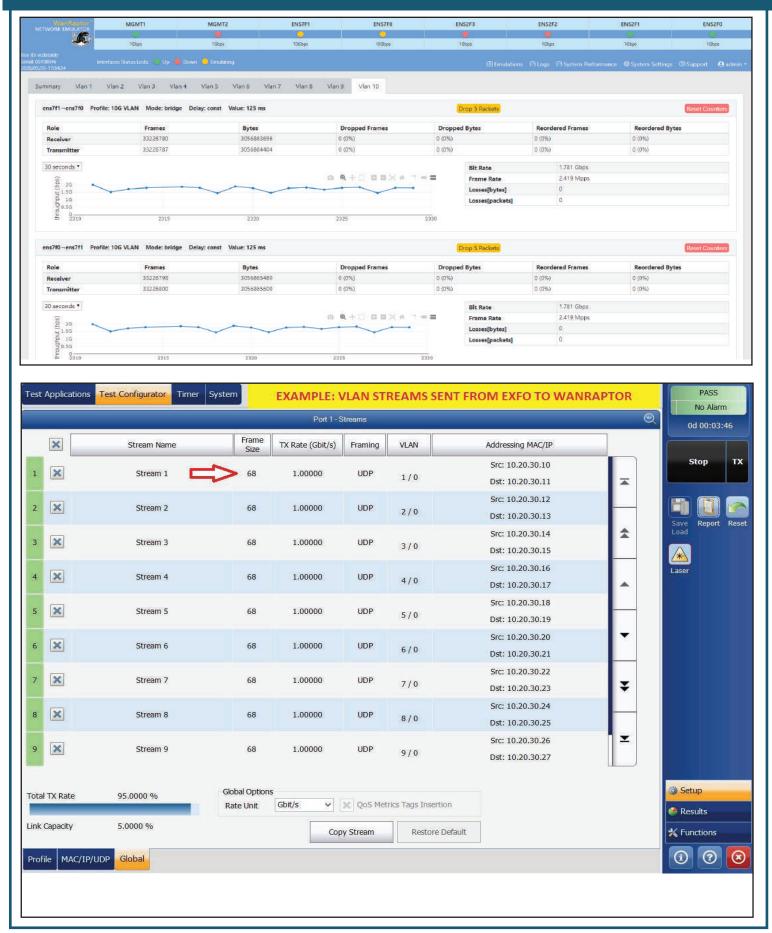
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