OmniAdapter™ 40G

High Performance 40 Gigabit Analysis Card

Available as an Option with the Following WildPackets Products:

- TimeLine network recorder

WildPackets' OmniAdapter 40G is a one-port, PCI Express 40 Gigabit network analysis card with 1x40 Gbps optical interfaces that has been optimized for monitoring and troubleshooting traffic on 40 Gigabit Ethernet networks. The OmniAdapter 40G provides hardware-accelerated packet tracing and dynamically configurable filtering together with high precision timestamping.

The OmniAdapter 40G is available with QSFP+ interface.

Performance

- Provides 40 Gigabit network traffic capture and analysis
- Addresses multiple CPUs for efficient CPU load balancing
- Supports real-time high performance write to disk

Bus

- PCI Express Card, half height, half length Supports PCI Express bus speeds
- 8 lanes @ 5 GHz PCI Express Gen2

Memory

- 1GB onboard

Connection Modes

- Span port
- Mirror port
- Tap
- Matrix switch

Packet Slicing

- Once the data is filtered, the packet is sliced to reduce the amount of data uploaded to the CPU
- Intelligent slicing parameters are configurable, so that packets of varying encapsulations and header lengths can be sliced at the appropriate point

Data Management

Filtered or unfiltered feed with hardware filters for TCP Ports, UDP Ports, Physical Address, and IP Address.

Real-Time Hardware Generated Packet Timestamp

- 10ns precision time stamp
- Time synchronization
  - External: RJ45 connector or RS-422 PPS signal from GPS or CDMA receiver
  - Internal: host PC clock

Error Packet Capture

OmniAdapter 40G has the ability to capture error packets on the network. These errors include: Runt, Oversize, Frame Alignment, and CRC Errors. To capture errors on 40 Gigabit segments, you must use the WildPackets OmniAdapter 40G.

Supported Operating Systems

- Windows 7
- Windows Server 2008
- Windows Server 2003
- Linux

Environmental

- Operating: 0° to 45°C (32°F to 113°F)
- 20% to 80% non-condensing
- Hardware compliance: RoHS, UL, cUL, CE, FCC, CSA, VCCI, C-TICK
- MTBF: 188,063 hours

Power Requirements

- 29 Watts including QSPF+ SR4 modules

Physical Dimensions

- Half length, low profile PCI Express with exchangeable front bracket

QSFP+ Receive Wave-length

- SR4: 850 nm

Supported Frame Size

- < 64 - 10000 bytes

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