



OmniAdapter™ 10G

High Performance, Full-Duplex 10 Gigabit Analyzer Card

Available as an option with the following WildPackets products:

- TimeLine network recorder
- Omnipliance Core
- Omnipliance Portable

WildPackets' OmniAdapter 10G is a 2-port, PCI Express, full-duplex 10 Gigabit network analyzer card with 2x10 Gbps optical interfaces that has been optimized for monitoring and troubleshooting traffic on 10 Gigabit Ethernet networks. The OmniAdapter 10G provides hardware-accelerated packet tracing and dynamically configurable filtering together with high precision timestamping.

The OmniAdapter 10G is based on the industry standard PCI-E interface and available with 1x850nm MFF XFP or 1x1310nm SMF XFP optical transceivers with LC connectors.

Performance

- Offers 100% Packet capture directly to host memory with very low CPU utilization, regardless of packet size or network load.
- Manages transfer and replication of captured data so that host CPUs can focus fully on analysis.
- Provides 10 Gigabit network traffic capture and filtering.
- Addresses multiple CPUs for efficient CPU load balancing.
- Real-time high performance write to disk support.
- 4 GB DDR2 RAM module.

Bus

- PCI Express Card, half height, half length Supports PCI Express bus speeds
- 8 lanes @ 2.5 GHz

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

- 7.5ns Clock Resolution
- Time Synchronization
 - External: RJ45 Connector or RS-422 PPS signal from GPS or CDMA receiver
 - Internal: Host PC clock

Error Packet Capture

OmniAdapter 10G has the ability to capture error packets on the network. These errors include: Runt, Oversize, Frame Alignment, and CRC Errors. To capture errors on 10 Gigabit segments, you must use the WildPackets OmniAdapter 10G.

Supported Operating Systems

- Windows 7
- Microsoft Windows Server 2008
- Microsoft Windows Server 2008 R2
- Microsoft Windows Server 2003
- Windows XP
- Linux

Environmental

- Operating: 0° to 45°C
- 20% to 80% non-condensing
- Hardware compliance: RoHS, UL, CE, FCC, CSA, VCCI, C-TICK
- MTBF: 200550 hours according to RIAC-HDBK-217Plus

Power Requirements

- 36 Watts including XFP SR modules

Physical Dimensions

- Full height, half length PCI-E
- Height 107mm (4.2")
- Length 167mm (6.6")

XFP Sensitivity

- SR: -11.1 – 0.5dBm
- LR: -14.4 – 0.5dBm

XFP Receive Wave-length

- SR: 840 – 860 nm
- LR: 1290 – 1330 nm

Supported Frame Size

- < 64 - 10000 bytes



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