

Available as an option with the following WildPackets products:

- OmniPeek Enterprise and OmniEngine Enterprise
- Omnipliance SuperCore
- Omnipliance Core
- Omnipliance Edge
- Omnipliance Portable

Performance

- OmniAdapter collects, classifies, and merges data in real-time at 100% line rate under all network traffic conditions.
- 1000 MB/s burst transfer performance.
- Four-channel full-line rate sustained capture – capable of monitoring up to four half-duplex Gigabit Ethernet channels or two full-duplex channels.
- Custom integrated Direct Memory Access (DMA) controllers that use state-of-the-art hardware and field-programmable gate array (FPGA) technology to accelerate the sustained capture performance and efficiency of the OmniAdapter, while lowering CPU overhead.
- Real-time sustained high performance write to disk support.

Bus

- PCI-E Card, full height, half length, 8 lanes @ 2.5 GHz
- 32/64 bit support

Memory

2 GB DDR2 RAM module

Interfaces Options

OmniAdapter is a PCI-E card that supports up to 2 full-duplex or 4 half-duplex connections. Taking advantage of a PCI-E bus, the OmniAdapter provides high-performance connectivity for monitoring and troubleshooting Gigabit networks.

The OmniAdapter can be configured during manufacturing to support multiple configurations of SX, LX, ZX or copper (10/100/1000B-T).

OA-20091217

Physical interfaces:

- 4 SFP ports



- 4 RJ45 ports



- 2 SFP ports and 2 RJ45 ports



Connection Modes

- Span 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.
- Packet slicing between 8K and 16K bytes.

Data Management

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

Merging of Streams

The FPGAs on OmniAdapter merge data from all four channels on the card into a single stream, retaining information about which packets came from which stream.

Real-Time Hardware Generated Packet Timestamp

- 10ns precision timestamp
- Supports synchronization of card timestamp

Error Packet Capture

OmniAdapter has the ability to capture

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

Supported Operating Systems

- Windows 7
- Windows Server 2003
- Windows XP
- CentOS Linux

Certifications

- FCC, Class A
- CE
- UL

Environmental

- Operating: 10° to 45° C
- 20 to 80% non-condensing

Power Requirements

- 25 Watts including SFP SR or RJ45 modules

SFP Sensitivity

- SX: -20 – 0 dBm
- LX: -22 – 0 dBm

SFP Receive Wave-length

- SX: 770 – 860 nm
- LX: 1265 – 1600 nm