

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-X Card, full height, 3/4 length PCI form factor
- PCI-X v1.0b compliant, 32/64 bit support
- Supports PCI-X bus speeds to 133MHz
- Operates in PCI mode at 33MHz in a 3.3v PCI slot

Memory

128MB SDRAM streaming packet buffer.

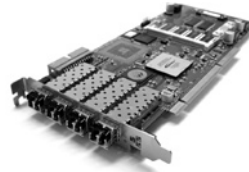
Interfaces Options

OmniAdapter is a PCI-X card that supports up to 2 full-duplex or 4 half-duplex connections. Taking advantage of a PCI-X bus that clocks up to 133 MHz, 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).

It is available in three different configurations:

- Four SFP cages



- Four RJ45 10/100/1000Base-T ports



- Two RJ45 10/100/1000Base-T ports and two SFP cages



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

Supported Operating Systems

- Windows Vista
- Windows Server 2003
- Windows XP
- Red Hat Enterprise Linux

Certifications

- FCC, Class A
- CE
- UL

Environmental

- Operating: 10° to 50° C
- 20 to 80% non-condensing

Power Requirements

- 1.0A at 3.3V
- 1.4A at 5V

SFP Sensitivity

- SX: -20 – 0 dBm
- LX: -22 – 0 dBm

SFP Receive Wave-length

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