

## Available as an option with the following WildPackets products:

- OmniPeek Enterprise and OmniEngine Enterprise
- TimeLine network recorder
- Omnipliance network recorder
- Omnipliance Portable

## Performance

- OmniAdapter 1G collects, classifies, and merges data in real-time at 100% line rate under all network traffic conditions.
- 1000 Mbps 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 1G, while lowering CPU overhead.
- Real-time sustained high performance write to disk support.

## Bus

- PCI Express Card, full height, half length, 8 lanes @ 2.5 GHz

## Memory

2 GB DDR2 RAM module

## Interfaces Options

OmniAdapter 1G is a PCI Express card that supports up to 2 full-duplex or 4 half-duplex connections. Taking advantage of a PCI Express bus, the OmniAdapter 1G provides high-performance connectivity for monitoring and troubleshooting Gigabit networks.

The OmniAdapter 1G can be configured during manufacturing to support multiple configurations of SX, LX, ZX, or copper (10/100/1000).

### Physical interfaces:

- 4 SFP cages
- 4 fixed RJ45 ports (10/100/1000)
- 2 SFP cages 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 1G 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 1G 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 1G.

## Supported Operating Systems

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

## Supported Frame Size

- < 64 - 10000 bytes