

# OmniAdapter™ 10G

High Performance, Full-Duplex 10 Gigabit Analysis Card

## Available as an Option with the Following WildPackets Products:

- · TimeLine network recorder
- · Omnipliance Portable

WildPackets' OmniAdapter 10G is a high performance, PCI Express, full-duplex 10 Gigabit network analysis card with 2 or 4x10 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 time stamping. The network adapter is available with SFP+ SR/LR/ER/CR interfaces.

OmniAdapter 10G 4-port is available on TimeLine network recorder only.

#### **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
- Supports real-time high performance write to disk support

## Bus

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

## Memory

- OmniAdapter 10G2-port: 1GB onboard
- OmniAdapter
  10G 4-port: 2GB
  onboard



#### **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

### **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 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
- 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:

OmniAdapter 10G 2-port: 175,847 hoursOmniAdapter 10G 4-port: 158,271 hours

### **Power Requirements**

- OmniAdapter 10G 2-port: 24.9 Watts including SPF+ SR modules
- OmniAdapter 10G 4-port: 33.2 Watts including SPF+ SR modules

### **Physical Dimensions**

- OmniAdapter 10G 2-port: half length, low profile PCI Express with exchangeable front bracket
- OmniAdapter 10G 4-port: half length, full height PCI Express

### SFP+ Sensitivity

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

### SFP+ Receive Wave-Length

• SR: 840 – 860 nm

• LR: 1290 - 1330 nm

## **Supported Frame Size**

• < 64 - 10000 bytes



1340 Treat Blvd, Suite 500 Walnut Creek, CA 94597 main (925)937-3200 fax (925)937-3211

www.wildpackets.com