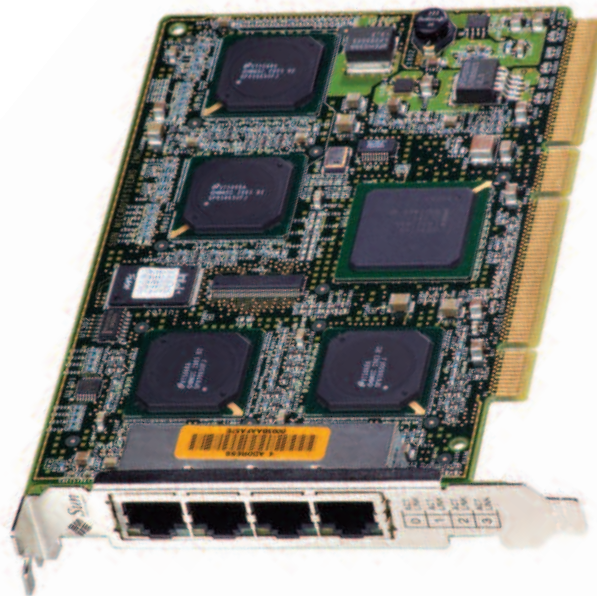


## Sun™ Quad GigaSwift PCI-X Adapters Enterprise-class Networking



### Key highlights

- Quad gigabit Ethernet connectivity using a single PCI-X slot
- 10/100/1000 Mbps autosensing Ethernet ports
- Hardware assist for: TCP/UDP checksum, packet parsing, and interrupt coalescing
- RAS features: Dynamic Reconfiguration (DR), redundancy and failover support
- Support for Jumbo Frames
- Support for Sun Trunking™ 1.3 software
- Increased bandwidth provides efficient, high-speed backups of large data files
- Fully compliant with IEEE 802.3 standards



Now your Sun systems can take full advantage of the latest-generation Sun GigaSwift Ethernet technology with network interface cards designed for high-speed network applications. Sun™ Quad GigaSwift PCI-X Adapters deliver high-performance connectivity to your Sun servers and workstations. Four Gigabit Ethernet connections per adapter provide high-bandwidth, server-to-server or server-to-switch connections, while conserving valuable PCI-X slots and providing a lower per-port cost.

By reducing CPU processing loads with packet parsing, hardware checksum generation and interrupt coalescing, server efficiency is increased, alleviating network congestion and enhancing compute performance. Because Sun Quad GigaSwift PCI-X Adapters comply with IEEE 802.3 standards, existing infrastructure, applications, and expertise can be retained when upgrading portions of the network to GigaSwift Ethernet technology. This interoperability can preserve your existing core wiring infrastructure, enabling a cost-effective, seamless migration to higher network throughput.

Jumbo Frame support can reduce the overhead associated with handling Ethernet packets. By sending and receiving larger packets (up to 9216 bytes) versus standard Ethernet packets of 1518 bytes, fewer pack-

ets are needed, resulting in a potential increase in throughput and a reduction in CPU utilization.

Sun Quad GigaSwift PCI-X UTP Adapters, combined with a trunking capable switch and Sun Trunking software, deliver fat pipe performance that is transparent to the application. By aggregating the traffic across multiple gigabit links, you can dedicate more bandwidth per link for servers and desktops requiring higher performance.

## Sun Quad GigaSwift PCI-X Adapter

### Key Features

1000BASE-T/1000BASE-SX Gigabit performance

Fully compliant with IEEE 802.3 standards

Support for IEEE 802.1Q VLAN

Support for IEEE 802.1P and 802.1D Priority Tagging and QoS

Support for Sun Trunking 1.3 software:

- Delivers aggregated bandwidth allowing higher data rates than any single Gigabit Ethernet link
- Enhanced availability with load balancing and failover capabilities

RAS functionality provides high availability and increases network uptime:

- Support for redundancy and failover configurations

Support for Jumbo Frames (9 KB):

- Reduce overhead of large file transfers by enabling larger packet size (up to 9,216 bytes) instead of standard Ethernet packet size (up to 1,522 bytes)

Supported on Solaris™ 10 OS and later versions

Server efficiency increased with hardware assist for:

- TCP checksum generation and checking
- Packet parsing and interrupt coalescing

Full and half-duplex modes:

- Sun developed high-performance ASIC provides full and half-duplex and link rate transmissions resulting in optimal bus transfers

### Benefits

- Increased productivity and cost savings through high network throughput
- Low cost of ownership and investment protection through open standards and interoperability

- Increased network security and cost savings through departmental network segmentation to relieve network congestion
- Increased network reliability and cost savings through support for Quality of Service for mission-critical traffic service
- Sun quality and performance

### Specifications

#### PCI-X Bus

Compliant with PCI-X 1.0 spec:

- 32-64-bit, 66/133 MHz
- Single-slot universal
- 5V or 3.3V DC
- Half-length PCI-X card
- Master/slave modes
- Hot-plug capable

#### Dimensions

Half-length PCI-X card: 17.3 cm x 10.7 cm (6.8 in. x 4.2 in.)

#### Software Supported

- Solaris™ 7, 8, and 9 OS and higher
- Firmware OpenBoot™ PROM 3.0 and higher
- Diagnostic SunVTS™ 4.4 and higher

#### Environmental

Operating temperature 0° C to 55° C

Storage temperature -40° C to 70° C

Relative humidity 0 percent to 95 percent, noncondensing

Shock and vibration:

- Operating shock: 2.5 G, 11 msec, 1/2 sine
- Nonoperating shock: 18 G, 11 msec, 1/2 sine, 4/face
- Operating vibration: 0.25 G, 5 to 500 Hz
- Nonoperating vibration: 0.6 G, 5 to 500 Hz

### Learn More

To learn more about the Sun Quad GigaSwift PCI-X Adapter, please visit [sun.com/products/networking/ethernet/sunquadgigethernet/index.xml](http://sun.com/products/networking/ethernet/sunquadgigethernet/index.xml)

#### Power Consumption

Maximum 21.32 W

#### Certifications

FCC Class A, VCCI Class A, UL 60950, third edition, CSA 60950, third edition, CB Scheme, IEC 60950-1, 2001, first edition

#### Ethernet

Quad 10/100/1000 copper and MMF Ethernet ports

Standards compliance:

- IEEE 802.1Q VLAN (Solaris 8 OS or later)
- IEEE 802.1P and 802.1D Priority Tagging and Quality of Service
- IEEE 802.3-compliant

#### Connections

Ethernet Connection:

- External RJ-45 connect or f or Cat 5 and higher
- Operating distance up to 100 meters

#### Order Part Number/Product Name

- X4445A Sun Quad GigaSwift Adapter