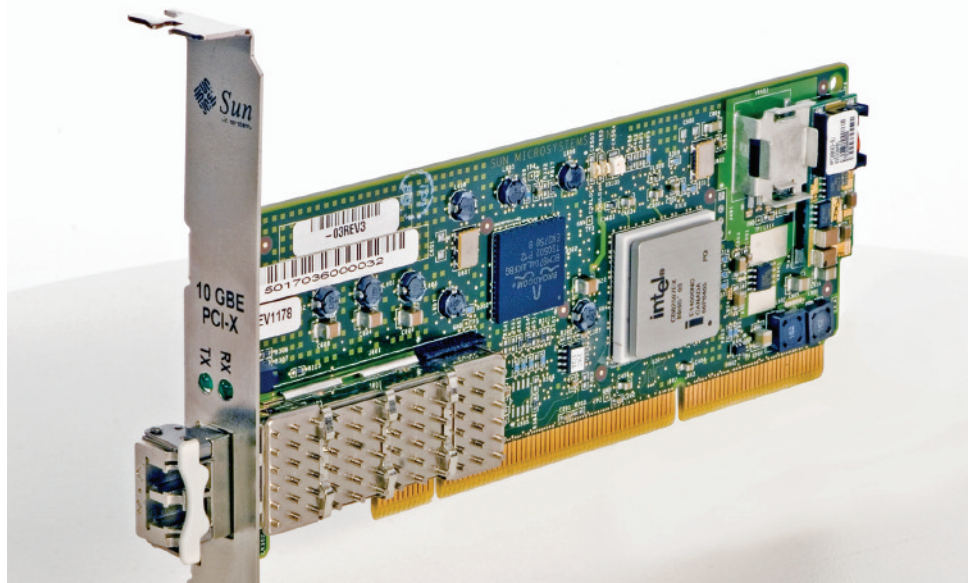


## Future-Proof Your Network With the Sun™ 10-Gigabit Ethernet Adapter

Future-proof enterprise-class networking



### Highlights

- High bandwidth: Delivering 10-Gb Ethernet with support for link aggregation (trunking) IEEE 802.3ae
- Compatible: Supports PCI-X and PCI standards, low- and standard-profile configurations, IPv4, IPv6, and IPMP standards for many high-bandwidth networking needs
- High availability: Redundancy and failover support, 802.1Q VLAN support, and support for Dynamic Reconfiguration (DR) for mission-critical applications
- Efficient: TCP, UDP, and IP hardware checksum offloads the CPU, enabling the server to handle more of its primary tasks



The new Sun™ 10-Gigabit Ethernet Adapter is a 133 MHz PCI-X, 10-Gigabit Ethernet fiber card, designed to provide the critical bandwidth required in high-speed LAN networks. A non-proprietary technology, the Adapter is poised to protect investments for the future as well as to improve performance today.

### Increased savings today and tomorrow

Customers will realize significant cost savings with the Sun 10-Gigabit Ethernet Adapter. Systems built on 10-gigabit Ethernet (10GbE) offer reliability, availability, and scalability (RAS). IT managers and CIOs see the benefit of Sun's 10GbE technology because of its non-proprietary nature—choice “future proofs” their investments for tomorrow, and optimizes their architecture today.

As 10GbE technology gains wider adoption, more server and storage data can be integrated. This provides significant improvements in bandwidth performance and lowered latency, reducing bottlenecks to network attached storage (NAS) devices,

as well as reducing cabling expenses, by cutting the number of links required to get the desired bandwidth.

### Increased speed in the LAN

The Sun 10-Gigabit Ethernet Adapter utilizes an Intel 82597EX PCI-X MAC controller with XFP-based 10GigE optics in a PCI-X low profile and standard form factor. As a result, local area networks using the Adapter immediately increase in speed and efficiency.

# Sun 10-Gigabit Ethernet Adapter

## Physical characteristics

Length

6.6 inches (167.64 mm)

Width

2.536 inches (64.61 mm)

Height

Component side: 0.57 inches (14.48 mm)  
Back side: 0.105 inches (2.67 mm)

## Power requirements

Maximum power consumption

14 watts

Voltage

I/O 3.3V signaling

## Performance specifications

Maximum Ethernet transfer rate

10 Gigabit

Host interface

PCI 66 MHz, PCI-X 90, 100, and 133 MHz network

Interface

IEEE 802.3ae, 2002 compliant

Optics

XG-Base-SR, XG-Base-LR

PCI-X clock

90, 100, 133 MHz

PCI data/address lines

64

PCI modes

66 MHz

## Ethernet relevant standards supported

- TCP/UDP/IP h/w checksum offload
- IEEE 802.1Q VLAN support
- IEEE 802.3ad link aggregation (trunking by Q3-2005)

## Hardware systems supported

Sun Fire V440, V480, V490, V880, V890, E2900, V1280, 4900 (Q3CY05), 6900 (Q3CY05), 20K/25K Sun Fire V40z (Q3CY05)

## Operating system

Solaris 9 9/04 and later SPARC Operating System, Red Hat Enterprise Linux 3.0

## Order part numbers

Part number

- X5544A 10-GE Base board without transceiver — can be used with Sun or third-party transceiver
- X5558A Sun Ethernet transceiver can be used with Sun 10-GE base board

## Optional cables for 10-GE adapter

Part number

- X9732A: 2M LC to LC FC optical cable
- X9733A: 5M LC to LC FC optical cable
- X9734A: 15M LC to LC FC optical cable
- X9736A: 25M LC to LC FC optical cable

## Certifications

- FCC Class A - Europe
- CE - Europe
- VCCI Class A - Japan
- CSA - Canada
- MIC - Korea UL

## Learn More

For more details about the Sun 10-Gigabit Ethernet Adapter, visit [sun.com/networking](http://sun.com/networking).

## Benefits

- Increased productivity and cost savings through high-network throughput
- Increased network reliability and cost savings through support for quality of service for mission-critical traffic

## 10 Gb Ethernet in full-duplex

- One full-duplex 10-gigabit Ethernet interface (XFP module)
- Duplex LC fiber connector (850 nm, SC)
- PCI-X -133 MHz compatible and PCI-66 MHz compliant
- Uses the Intel 82597EX PCI-X MAC controller
- Uses XAUI to XFI Serdes
- Dynamic reconfiguration (DR) and redundancy/failover support
- Kstat and snoop support
- Support for promiscuous and multicast modes
- Jumbo frames support up to 8170 bytes
- Low-profile 64-bit PCI-X plug-in card
- Implements PCI-X addendum to PCI Local Bus specifications, Revision 1.0A
- IPv4, IPv6, and IPMP support
- TCP, UDP, and IP hardware checksum offload
- 802.1Q VLAN support
- IEEE 802.3ae Link Aggregation (trunking)
- NDD physical layer management configuration capability
- Ability to purchase the base board and its transceiver separately

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