

# SUN™ GIGASWIFT ETHERNET NETWORKING CARDS AT A GLANCE: BRING YOUR NETWORK UP TO SPEED

## Highlights

- 10/100/1000 Mbps auto-detecting Ethernet ports
- Choice of single, dual, or quad density
- Support of multiple operating systems: the Solaris™ OS, Linux, Windows
- Copper and fiber flavors
- Fully compliant with IEEE standards
- Jumbo Frame support
- Link aggregation support
- RAS features such as Dynamic Reconfiguration (DR)

Sun's Gigabit Ethernet (GbE) family of networking cards brings all your Sun servers and workstations up to gigabit speeds. Sun provides a choice of single-port, dual Gigabit Ethernet + dual SCSI, quad-port, and dual GbE PCI Express (PCIe) UTP and MMF networking cards to meet your high-bandwidth server-to-server, server-to-switch, and server-to-storage connectivity requirements. All networking cards support Jumbo Frames and link aggregation. Jumbo Frames provide for large packet size (9 KB); link aggregation enables aggregation of multiple ports and ease of failover configurations, thereby improving throughput and freeing up the processor for other tasks.

## MAXIMUM CONNECTIVITY WITH UNPRECEDENTED CHOICE

These networking cards support SPARC® and x86 platforms on the Solaris OS and Linux, providing a high-speed interface for all your next-generation applications. All Sun GbE networking cards comply with existing Ethernet protocols and standards. This interoperability can preserve your core wiring infrastructure, enabling a cost-effective and seamless migration to higher network throughput.

PCIe Cards



**Sun PCIe Dual GbE Networking Card**



**Sun Quad GbE x8 PCIe Low Profile Networking Card**



**Sun x4 PCIe Quad GbE Low Profile Networking Card**



**Sun PCIe Dual GbE ExpressModule**



**Sun Quad GbE x8 PCIe ExpressModule**



**Sun x4 PCIe Quad GbE ExpressModule**

Ordering number	UTP: 7280A-2, MMF: 7281A-2	X4447A-z	X4446A-z	UTP: 7282A-2, MMF: 7283A-2	X7287A-z	X7284A-z
Network interfaces	Two-port GbE UTP or MMF	Four-port GbE UTP	Four-port GbE UTP	Two-port GbE UTP or MMF	Four-port GbE UTP	Four-port GbE UTP
Connections	UTP: Two RJ45 UTP connectors for CAT 5 copper cabling MMF: Two SC fiber connectors for 62.5 micron and 50 micron fiber	UTP: Four RJ45 UTP connectors for CAT 5 copper cabling	UTP: Four RJ45 UTP connectors for CAT 5 copper cabling	UTP: Two RJ45 UTP connectors for CAT 5 copper cabling MMF: Two SC fiber connectors for 62.5 micron and 50 micron fiber	UTP: Four RJ45 UTP connectors for CAT 5 copper cabling	UTP: Four RJ45 UTP connectors for CAT 5 copper cabling
Bus type	x4 PCIe	x8 PCIe	x4 PCIe	x4 PCIe	x8 PCIe	x4 PCIe
Operating distance	UTP: Up to 100m MMF: 275m at 62.5 µm, 550m at 50 µm	UTP: Up to 100m	UTP: Up to 100m	UTP: Up to 100m MMF: 275m at 62.5 µm, 550m at 50 µm	UTP: Up to 100m	UTP: Up to 100m
Operating systems	Solaris OS for SPARC Enterprise, Solaris OS for x86, Red Hat Enterprise Linux, SUSE Linux, Windows	Solaris OS for SPARC Enterprise, Solaris OS for x86, Red Hat Enterprise Linux, SUSE Linux, Windows	Solaris OS for SPARC Enterprise, Solaris OS for x86, Red Hat Enterprise Linux, SUSE Linux, Windows	Solaris OS for SPARC Enterprise, Solaris OS for x86, Red Hat Enterprise Linux, SUSE Linux, Windows	Solaris OS for SPARC Enterprise, Solaris OS for x86, Red Hat Enterprise Linux, SUSE Linux, Windows	Solaris OS for SPARC Enterprise, Solaris OS for x86, Red Hat Enterprise Linux, SUSE Linux, Windows
Supported platform	Sun SPARC Enterprise™ servers, Sun x64 servers*	Sun SPARC Enterprise servers*	Sun x64 servers*	Sun Blade servers*	Sun Blade servers*	Sun Blade servers*
Dimensions	Low-profile card 16.8 × 6.89cm (6.7 × 2.73 in.) Low-profile onboard bracket Standard bracket included	Low-profile card 16.8 × 6.89cm (6.7 × 2.73 in.) Low-profile onboard bracket Standard bracket included	Low-profile card 16.8 × 6.89cm (6.7 × 2.73 in.) Low-profile onboard bracket Standard bracket included	Plug-in module 16.99 × 11.2 × 2.16cm (6.69 × 4.41 × 0.85 in.)	Plug-in module 16.99 × 11.2 × 2.16cm (6.69 × 4.41 × 0.85 in.)	Plug-in module 16.99 × 11.2 × 2.16cm (6.69 × 4.41 × 0.85 in.)
Typical power consumption	10 W	10 W	10 W	5 W	10 W	10 W



**Sun GigaSwift Ethernet Networking Card**



**Sun PCI-X Dual GbE Networking Card**



**Sun Dual Gigabit + Dual SCSI PCI**



**Sun Quad GigaSwift Ethernet PCI-X**

PCIe/PCI-X Cards

Ordering number	UTP: X4150A-2 UTP, MMF: X4151A-2	UTP: X7285A, MMF: X7286A	X4422A-2	X4445A
Network interfaces	Single-port GbE UTP or MMF	Two-port GbE UTP or MMF	Two GbE ports and two SCSI ports (80 MB/sec. wide Ultra2)	Four GbE ports
Connections	UTP: RJ45 UTP connectors for CAT 5 copper cabling MMF: SC fiber connector for 62.5 micron and 50 micron fiber	UTP: RJ45 UTP connectors for CAT 5 copper cabling MMF: SC fiber connectors for 62.5 micron and 50 micron fiber	UTP: Two RJ45 UTP connectors for CAT 5 copper cabling Two 68-pin SCSI VHDCI female external connectors	UTP: Four RJ45 UTP connectors for CAT 5 copper cabling
Bus type	PCI	PCI-X	PCI	PCI-X
Operating distance	UTP: Up to 100m MMF: 275m at 62.5 µm, 550m at 50 µm	UTP: Up to 100m MMF: 275m at 62.5 µm 550m at 50 µm	UTP: Up to 100m SCSI: X1134A, 530-2452-02 (CBL, UltraSCSI-3/VHDCI, 68P, 0.8m) X3832A, 532-2453-02 (CBL, UltraSCSI-3/VHDCI, 68P, 2m) X3830A, 530-2454-02 (CBL, UltraSCSI-3/VHDCI, 68P, 4m) X3831A, 530-2455-02 (CBL, UltraSCSI-3/VHDCI, 68P, 10m)	UTP: Up to 100m
Operating systems	Solaris OS for SPARC Enterprise, Solaris OS for x86	Solaris OS for x86, Red Hat Enterprise Linux, SUSE Linux, Windows	Solaris OS for SPARC Enterprise, Solaris OS for x86	Solaris OS for SPARC Enterprise, Solaris OS for x86
Supported platform	Sun SPARC Enterprise servers*	Sun x64 servers*	Sun SPARC Enterprise servers*	Sun SPARC Enterprise servers*
Dimensions	Low-profile card 16.8 × 6.89cm (6.7 × 2.73 in.) Low-profile onboard bracket Standard bracket included	Low-profile card 16.8 × 6.89cm (6.7 × 2.73 in.) Low-profile onboard bracket Standard bracket included	Full-height, half-length card 17.27 × 10.67cm (6.8 × 4.2 in.)	Full-height, half-length card 17.27 × 10.67cm (6.8 × 4.2 in.)
Typical power consumption	Max. 15 W	10 W	Max. 16.65 W	20 W

\* Please refer to the "Platform Support Matrix" at sun.com/networking for the most up-to-date list.

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