

## Sun StorageTek™ 4Gb FC Network Express Module, 20 port pass-thru, RoHS 5 compliant

Sun P/N: SG-XPCIE20FC-NEM-Z



The Sun StorageTek™ 4Gb FC Network Express Module is ideal for Sun Blade 8000 customers who require a high-density enterprise-level 4Gb Fibre Channel connectivity solution. This new design takes all the functionality typically delivered on a Fibre Channel HBA or mezzanine card and houses it in a hot-pluggable I/O module. Up to four Fibre Channel Network Express Modules can be installed in the Sun Blade 8000 Modular System chassis providing up to 80 ports of Fibre Channel SAN connectivity.

Featuring the award-winning LightPulse Fibre Channel architecture from Emulex, the Sun StorageTek 4Gb FC Network Express Module is a highly integrated connectivity solution for enterprise-class storage area networks (SANs). With PCI Express host bus platform support and 4Gb Fibre Channel link speeds, this Fibre Channel Network Express Module solution delivers unsurpassed performance and flexibility for your most demanding storage networking applications.

### Highlights

- Unique Network Express Module form factor, designed specifically for the Sun Blade 8000 Modular System
- Enterprise-class I/O connectivity ideal for large or mixed OS SAN environments
- Features the award-winning LightPulse Fibre Channel architecture from Emulex
- Support for up to four Network Express Modules per chassis, providing 80 ports of 4Gb Fibre Channel connectivity
- Remote I/O for ease of deployment and serviceability, as well as reduced thermal and power requirements for blade server
- Hot-pluggable to eliminate disruption to on-going blade activities during insertion / removal
- Full fabric support with automatic topology and speed adaptation

### Innovative Form Factor

The Sun StorageTek 4Gb FC Network Express Module form factor provides a method of deploying bulk remote I/O that allows tool-less installation/removal and packs more performance and functionality in a smaller space while delivering higher I/O throughput. This solution provides efficient use of datacenter real estate.

### Modular Architecture Provides Scalability and Investment Protection

Most traditional rackmount servers require a box-swap in order to take advantage of each new release of CPU and I/O technology. This problem is solved with the Sun Blade family's modular architecture design. Everything, including the I/O, is modular and hot-pluggable.

### Stay Ahead in Reliability, Availability & Serviceability (RAS)

The flexible architecture of the Sun Blade 8000 Modular System is based entirely on the hot-pluggable components--I/O, processing, system management, and chassis infrastructure. All critical components are hot-swap and redundant. The Sun StorageTek 4Gb FC Network Express Module is a snap to install or

replace. This is the state-of-the-art in hot-swap enterprise-class RAS features, and it all works together to boost your IT efficiency and uptime, speed your responsiveness, and lower your TCO.

### Proven design, architecture and interface

The award-winning LightPulse Fibre Channel architecture raises the bar in performance I/O computing. The design minimizes onboard components, while advanced error-checking methods assure robust data integrity.

### Flexibility

A robust feature set, combined with comprehensive testing and support helps ensure that the Sun StorageTek 4Gb FC Network Express Module provides the flexibility and interoperability needed for complex, highly scalable heterogeneous SANs.

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### Supported Operating Systems

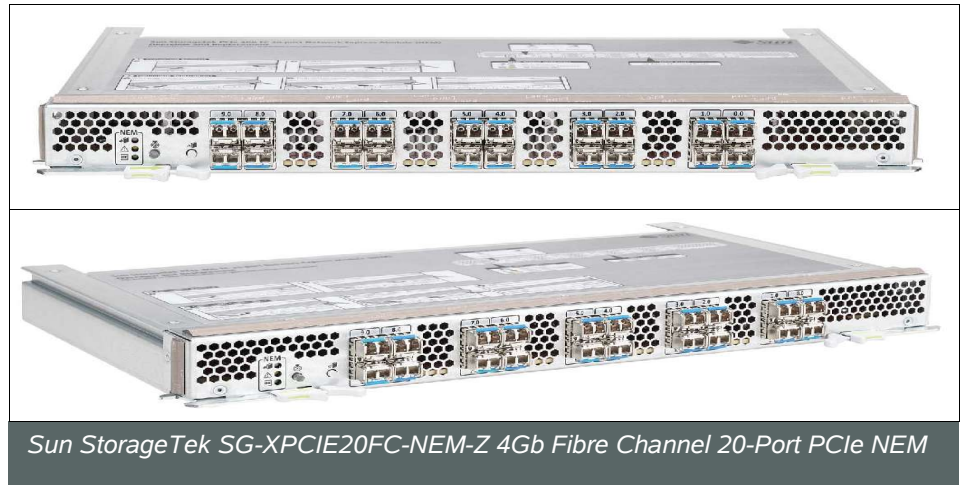
- Solaris 10 (x64/x86)
- Red Hat RHEL 4.0 (64-bit)
- SUSE SLES 9 (64-bit)
- Windows Server 2003 (32-bit & 64-bit)
- VMware ESX Server 3.0.1

### Supported Server Platforms

- Sun Blade 8000 Modular System
- Sun Blade 8000 P Modular System

### External Storage Options

- Workgroup Storage
  - SE3510 FC Array (RAID & JBOD)
  - SE3511 FC Array (RAID-SATA)
- Midrange Storage
  - SE6120
  - SE6130
  - SE6140
  - SE6320
  - SE6540
  - SE6920
- Data Center Storage
  - SE9990 System
  - SE9980 / 9985 System
  - SE9970 System
- Tape Backup and Restore1
  - L500 FC
  - L180 FC
  - L700 FC
  - L8500 FC



### Standards

- ANSI Fibre Channel: FC-PH-3, FC-PI-2, FC-FS, FC-AL-2, FC-GS-4, FC-FLA, FC-PLDA, FC-TAPE, FCP-2 and RFC 2625 (IP over FC)
- PCI Express base spec 1.0a
- Fibre Channel class 2 and 3
- PHP hot plug–hot swap

### Environment

- Volts
  - +48 VDC
- Power consumption (typ/max)
  - 75W / 125W
- Operating temperature
  - 0° to 51°C (32° to 124°F)
- Airflow required
  - 25 CFM
- Storage temperature
  - -40° to 65°C (-40° to 149°F)
- Relative humidity
  - 5% to 93% non-condensing

### Agency Approvals

- UL recognized to UL 60950-1 :2003
- CUR recognized to CSA22.2, No. 60950-1-03
- TUV certified to EN60950-1
- FCC rules, Part 15, Class A
- ICES-003, Class A
- EMC Directive 2004/108/EC (CE Mark)
  - EN55022, Class A
  - EN55024
- Australian EMC Framework (C-Tick Mark)
  - AS/NZS CISPR22:2002; Class A
- VCCI, Class A (Japan)
- RoHS Compliant (Directive 2002/95/EC) for environmental requirements.
- China RoHS Compliant

### Description and Model Name

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