



High Reliability
Total Availability
Superior Performance



FibreQuik™ PC4000

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- ❖ *Supports 1.6 GHz/s Full Duplex Fibre Channel Data Transfer Rates With Exclusive Cambex DPF Software*
- ❖ *Highest Performance and Availability For Enterprise Servers, Internet Access and Multi-Media Applications*
- ❖ *Multiple Simultaneous Host and Target Connections With Robust Disk Array and Tape Library Support*
- ❖ *Supports Point-to-Point, Loop, Fabric Loop (FL) and Full Fabric (F) Topologies*
- ❖ *Field-proven AIX, Solaris, Linux and Windows Software Drivers For Heterogeneous SANs*
- ❖ *Optional Cambex Dynamic Path Failover™ Software for Superior Active-Active Performance and High Availability*

The FibreQuik PC4000 Adapter Card

The Cambex FibreQuik PC4000 PCI-to-Fibre Channel host bus adapter provides high-speed Fibre Channel connectivity for IBM AIX, Sun Solaris, Linux and Windows servers, enabling the implementation of integrated Fibre Channel Storage Area Networks. FibreQuik's hardware architecture and highly tuned software drivers provide industry leading performance making it an ideal solution for mission-critical servers, disaster recovery, online transaction processing, data warehousing, and video post production applications.

Full Fibre Channel Compatibility

The FibreQuik PC4000 is compatible with 1, 2 and 4 Gigabit Fibre Channel hubs, switches, tape libraries and both JBOD and RAID disk storage arrays. It comes standard with mature AIX, Solaris, Linux and Windows software drivers, supports the SCSI Fibre Channel Protocol, and connects in any topology. The PC4000 conforms to the PCI-X 266 specification and is fully compatible with both 32-bit and 64-bit PCI busses.

The Cambex Performance Edge

The FibreQuik PC4000 supports simultaneous data transfer rates of 400 MB/s in each direction, on each port, and operates two to five times faster than the SCSI interfaces used in most storage servers today. The PC4000 architecture features five independent DMA channels for commands and data to reduce latency as well as independent send and receive frame buffers for full duplex operation. To minimize CPU utilization and optimize application performance, an embedded RISC processor can execute multiple SCSI I/O commands generating no more than one interrupt per I/O operation.

High Availability Storage with Double Speed

Cambex has developed Dynamic Path Failover (DPF) software for use with its FibreQuik adapter family to provide higher performance and availability in mission-critical environments. DPF combined with two FibreQuik PC4000s in each host server provides full data availability in the event of an adapter, cable, RAID controller or other storage path failure. When configured for dual adapter connectivity to a common Fibre Channel disk array the Active-Active data rate can be effectively doubled to 1.6 GBPS.

PRODUCT SPECIFICATIONS

FIBRE CHANNEL STANDARDS

ANSI	FC-PH: FC Physical and Signaling Interface
ANSI	FC-AL: FC Arbitrated Loop
ANSI	FC-FLA: FC Fabric Loop Attachment
ANSI	FCP: FC Protocol for SCSI
ANSI	FC-MI: FC Methodologies for Interconnects
PCI SIG	PCI Local Bus Specification 2.3
PCI-X	2.0a

FIBRE CHANNEL INTERFACE

PC4000LC	Single Port
PC4002LC	Dual Port
Data Rate:	800 MB/s (full duplex)
Connector:	Small form factor LC multimode optical
Distance:	150 meters (50/125 µm fiber), 70 meters (62.5/125 µm fiber)
Power:	6.5 W (maximum) - PC4000 8.0 W (maximum) - PC4002

PCI-X INTERFACE

64 BIT, 266 MHZ DDR
Compatible with 33/66 PCI and 66/100/133 MHZ PCI-X

PHYSICAL DESCRIPTION

Low-profile MD2: 6.6 in. X 2.5 in.

OPERATING ENVIRONMENT

Operating Temperature:	32° - 104° F (0° - 40° C)
Storage Temperature:	-4° - 158° F (-20° - 70° C)
Relative Humidity:	10 - 90% Non-condensing
Storage Humidity:	5 - 95% Non-condensing

POWER SPECIFICATIONS

Voltage: 3.3V

SOFTWARE DRIVERS

IBM AIX, Sun Solaris, Windows 2000, 2003, XP, and Linux

WARRANTY

Three Year Warranty, Lifetime Option

PRODUCT CERTIFICATIONS

US FCC Part 15, Class A UI60950, Class 1 Laser Product per DHHS 21 CFR J, Canada CSA C22.2 No. 60950, ICES-003 Class A, Europe 89/336/EEC EMC Directive CE Mark: EN55022: 1998 /CISPR22: 1997 Class A, EN55024: 1998, EN61000-3-2:1995, EN61000-3-3:1994, 73/23/ECC Low Voltage Directive: EN60950-1: 2001, EN60825-1: 1994+A1+A2, EN60825-2: 1994+A1, ROHS Compliant, Japan VCCI Class A, Taiwan CNS 13438 Class A, New Zealand/Australia AS/NZS 3548 Class A, Korea MIC

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Cambex engineers have developed High Availability hardware and software storage solutions for the Open Systems market for over ten years.

The FibreQuik PC4000 allows AIX, Solaris, Windows and Linux servers to connect to heterogeneous Storage Area Networks for seamless data access and sharing.

The Cambex FibreQuik PC4000 and DPF software are the latest evolution of fibre channel products that serve our customers needs for today and tomorrow.

*Dynamic Path Failover
MC1000 Micro Channel
PC1000 1 GB/s PCI
PC2000 2 GB/s PCI
PC4000 4 GB/s PCI-X*

For over 3 decades, Cambex engineering has led the storage industry with the design of advanced hardware and software products.

Service and support are the hallmarks of the Cambex commitment to enterprise-class customer satisfaction and 24/7 availability.

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