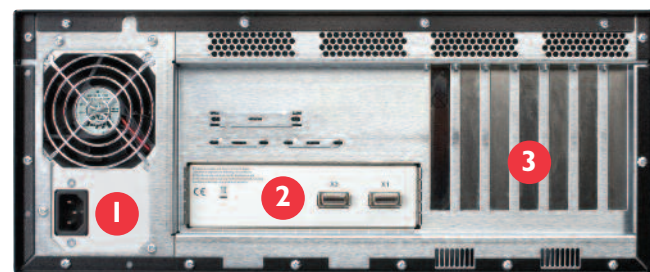


### PE6R4 - Top View

1. Six slot PCI-X backplane
2. Cooling fan assembly
3. Space for optional drive cage
4. Infiniband cables
5. PCI Express host interface card



### PE6R4 - Rear View

1. 500W Power supply (Redundant, Hot Swap supply is optional)
2. Cable connections
3. PCI card slot opening

# 6 Slot PCI Express® to PCI-X Expansion System

Model PE6R4

## How to Buy:

All Magma products can be purchased factory direct or through a reseller. A list of resellers is available at [www.magma.com](http://www.magma.com).

### Model Names:

PE6R4: 6 slot PCI Express to PCI with 500W PS  
 PE6RR: 6 slot PCI Express to PCI with Redundant 400W PS  
 SUBCBL3IF: 3-meter cable option

RDRIVECAGE: Drive cage with fan  
 RCHD7: PCI card hold down kit  
 RSLIDES-X: Chassis Trak® rack slides with extender bracket (18", 24", 26" or 28" lengths)

## Specifications:

**Backplane**  
 6 PCI-X slots (66MHz)  
 PCI Local Bus Specification: Revision 2.3  
 PCI Bridge Architecture Specification: Revision 1.2

**Cable**  
 Pair of 1-meter Infiniband cables  
 Optional 3-meter length

**Interconnect Bandwidth**  
 512 MB/sec (Theoretical Max. of PCI 64/66)

**Enclosure**  
 4U Black Rack-mount  
 19"W x 7"H x 17.7"D  
 Removable/cleanable air filter  
 24 lbs or 11.804 kg

**System Cooling**  
 One large 82.5 CFM backplane fan  
 One fan in power supply

**Host Connection**  
 PCI Express Interface card (x4) for standard height or low-profile slots  
 Dimensions (H x L) 2.7 x 3.2 in (69 x 81 mm)  
 PCI Express Bus Specification: Revision 1.0a

**Host Card Power Consumption**  
 0.15A @ +3.3V maximum

**Rack Installation**  
 Optional Chassis Trak® rackside kit  
 Optional PCI card hold down kit

**Hard-Drive Support**  
 Optional Drive Cage

**Chassis Power Supply**  
 500W Power Supply (standard)  
 AC Input: 90-264 VAC  
 Input Frequency: 47-63HZ  
 Input Current: 9.0A Max  
 DC Output: 500Watts Max  
 +12V 35.0A maximum  
 - 12V 0.8A maximum  
 +5V 24.0A maximum  
 +3.3V 24.0A maximum  
 +5VSB 2.5A maximum  
 OV Protection: +3.3V, +5V, +12V  
 OC Protection: 135%

400W Redundant Hot-Swap Power Supply  
 Optional *Contact Magma for specifications*

**Environmental**  
 Ambient Temperature: 0° to 50° C,  
 Storage Temperature: -20° to 60° C,  
 Relative Humidity: 5% to 85%,  
 non-condensing

**MTBF**  
 53,000 hours

**Regulatory Compliance**  
 FCC Class A Verified  
 CE Certified  
 UL/CUL Listed

**Supported Operating Systems**  
 Windows Vista/XP/2000/Server 2003  
 Mac OS 10.4+  
 Linux Kernel 2.6x+

**Warranty**  
 30 day money back guarantee  
 1 year return to factory

**Magma**  
 9918 Via Pasar, San Diego  
 California 92126  
 Toll Free: 1.800.285.8990  
 Telephone: 1.858.530.2511  
 Fax: 1.858.530.2733  
 E-mail: [sales@magma.com](mailto:sales@magma.com)

A Service Disabled Veteran Owned Small Business  
 ISO9001:2000 Certified

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 \* Licensed

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Enjoy the benefit of a PCI Express computer while protecting your investment in PCI hardware

- Add six PCI slots through one PCI Express slot
- Supports PCI and PCI-X cards
- Includes PCI Express host card and high-speed shielded cables
- Easy installation, no software required

The Magma PCI Express-to-PCI Expansion System provides a simple, cost-effective solution for expanding the capability of your PCI Express based computer. As computer manufacturers migrate to PCI Express, the number of available PCI slots has been reduced or completely eliminated. However, many companies have invested a substantial amount of capital on solutions built around conventional PCI and PCI-X hardware. The Magma expansion system provides a migration path to PCI Express while protecting your PCI hardware investment.

### Where PCI meets PCI Express

The Magma PCI Express-to-PCI Expansion System is designed to match the through-put required by the majority of PCI cards on the market today. The expansion chassis contains six PCI-X slots which are connected to the host computer through a 4 lane (x4) PCI Express host interface card and a pair of high-performance cables.



### Cost-Effective Migration and Increased I/O Capacity

The Magma PCI Expansion solution provides a cost-effective migration path to new PCI Express-based computers while maintaining a consistent PCI configuration. In addition, Magma products significantly increase Input/Output (I/O) capacity and scalability. Multiple expansion systems can be combined to

provide an almost unlimited number of PCI slots\* to a single computer. This type of scalability is especially useful in industries such as telecom, data acquisition, video monitoring, server storage and manufacturing test fixtures.

\*As defined by the PCI Local Bus Specification, the theoretical maximum per computer is 255 PCI buses.

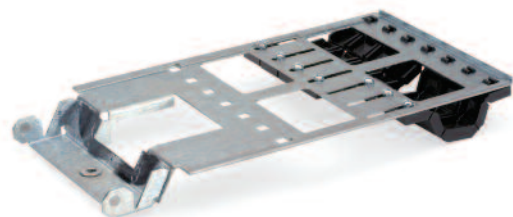
### Easy Installation

The Magma 6 Slot PCI Express-to-PCI Expansion System consists of a PCI Express host card, a pair of high-speed cables and a PCI expansion chassis. The host card relays signals from the PCI Express slot inside the computer motherboard to a PCI backplane inside the expansion chassis. The system is automatically configured by the system BIOS and all six high-performance PCI slots within the expansion chassis appear transparent to the host computer.

Optional hot-swappable, redundant power supply for high availability applications.\*



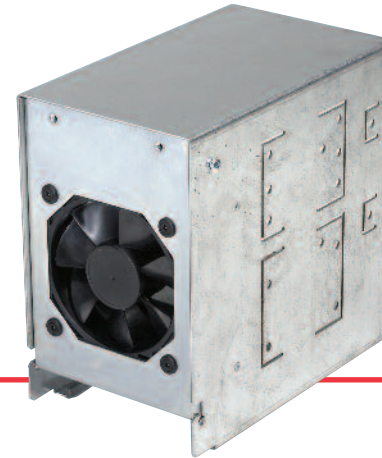
Optional PCI card hold down mechanism prevents cards from being dislodged during transportation



Optional 3-meter cable provides longer expansion length for large rack installations.



Optional drive cage with cooling fan holds four 3.5" internal disk drives. Maximum of two drive cages per system.



Optional Chassis Trak® rack slides allows entire chassis to be removed and replaced easily from a 4-post rack cabinet.



### Benefits:

- Provides a link from PCI Express-based computers to legacy PCI hardware
- Cost effective solution for adding an unlimited number of PCI slots to PCI Express-based computers and servers
- Ideal migration path to small form factor servers, while maintaining a consistent PCI hardware configuration
- Substantially increase I/O capacity
- Supports universal and 3.3V PCI and PCI-X cards
- Multiple expansion systems can be used with a single computer

### Features:

- Easy Plug and Play installation
- Visible LEDs indicate correct installation
- Includes one pair of 1-meter Infiniband cables
- 6 slot PCI-X backplane
- All slots support full-length PCI cards
- 4U, black rack-mount enclosure
- ATX form factor allows backplane to be used in different types of enclosures
- Supports spread spectrum clocking
- 500W Power Supply or 400W Hot-Swappable Redundant Power Supply
- Dedicated fan for cooling PCI cards
- Optional PCI card hold down mechanism prevents cards from being dislodged during transportation
- Optional drive cage for mounting up to eight internal drives inside chassis
- Optional Chassis Trak® rack slide kit for rack cabinet installation
- CE certified and FCC Class A verified
- 30 Day Money Back Guarantee