6 Slot PCI Express® to PCI-X Expansion System

Model PE6R4-I

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 cable

- 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 high-performance cable.

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.
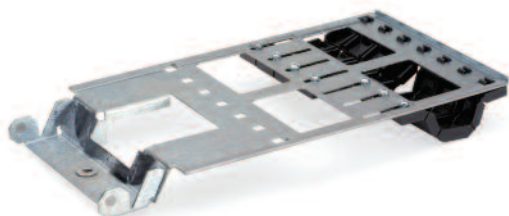
Easy Installation

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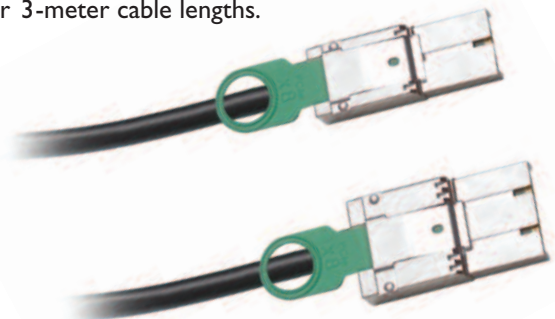
Optional hot-swappable, redundant power supply for high availability applications.*

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

Rugged iPass cable is available in 1 or 3-meter cable lengths.

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.
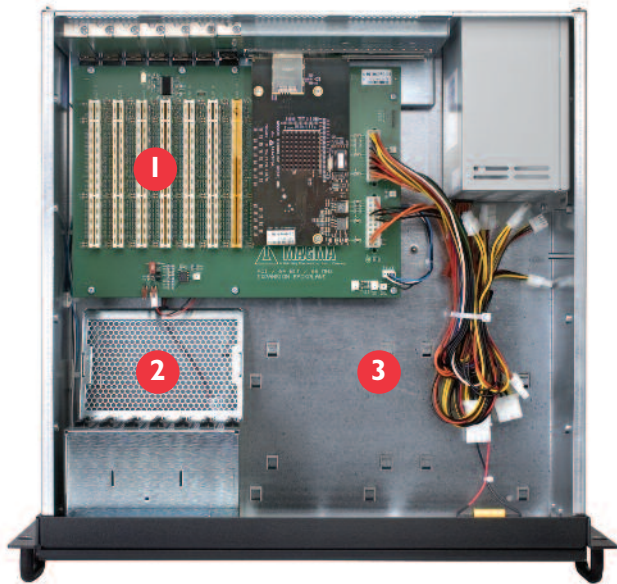
Benefits:

- 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
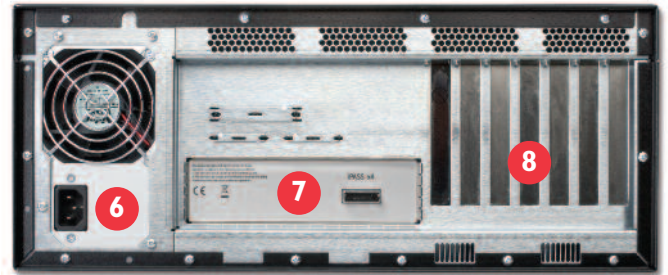
Features:

- Easy Plug and Play installation

- Visible LEDs indicate correct installation

- Includes x8 PCI Express host card and 1 meter iPass cable

- 6 slot PCI-X backplane

- All slots support full-length PCI-X cards

- 4U, black rack-mount enclosure

- ATX form factor allows backplane to be used in different types of enclosures

- Supports spread spectrum clocking

- Auto-Switching 400W or 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

- UL listed

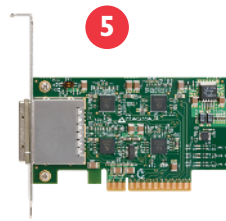- RoHS Compliant

- 30 Day Money Back Guarantee

PE6R4-I - Top View

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

PE6R4-I - Rear View

6. 400W Power supply (Redundant is optional)
7. Cable connection
8. PCI card slot opening

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.

Model Names:
PE6R4-I: 6 slot PCI Express to PCI with 400W PS
PE6RR: 6 slot PCI Express to PCI with Redundant 400W PS
SUBCBL3IP: 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", 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
1-meter iPass
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 Track® rackside kit
Optional PCI card hold down kit

Hard-Drive Support
Optional Drive Cage

Chassis Power Supply
550W Power Supply Standard
AC Input: 100-240VAC
Input Frequency: 50-60HZ
Input Current: 10.0A Max
DC Output: 550Watts Max

+12V	36.0A maximum
-12V	3.0A maximum
+3.3V	28.0A maximum
+5V	36.0A maximum
+5VSB	3.0A maximum

Total power on +3.3V and 5V must not exceed 200W max.

400W Redundant 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
100,000 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+
Sun Solaris

Warranty
30 day money back guarantee
1 year return to factory

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