



## 7 Slot 64-bit/66MHz **PCI-to-PCI** Expansion System

### Satisfy Your Need for Speed

We recommend that your data buckle up for the 528 Megabytes/second ride that our 5 Gigabit, full-duplex link provides between your host desktop or server and our PCI Expansion System. With data traveling that fast, you can trust that even your most demanding applications will arrive “on time” when needed.

- Cost effectively add PCI slots to your desktop computer or server  
Add seven 64-bit/66MHz (64/66) PCI slots vs. four 64/66 PCI slots in a common single bus segment. Increase the functionality of your computer or server, and enable PCI-based applications in various markets
- The lifeline
  - Serialized bridging technology is incorporated into a universal PCI card, extending the PCI bus outside of your host computer
  - Our standard 3-meter cable provides a 5 Gigabit/second full duplex link from your computer or server to our PCI Expansion System
- Multiple power options  
Users may select a standard 400W power supply or a hot-swappable, redundant 300W power supply with audible alarm reset designed for high-reliability applications
- Stay cool  
A quiet fan provides optimal cooling to your cards and disk drives within a ventilated enclosure
- Save your work  
Optional drive bays are available to accommodate up to eight internal 3.5" disk drives
- And much, much, more
  - Effectively merge three servers into one by giving one server seven slots, instead of two slots
  - Run all of your drives off of one host computer
  - Facilitate high-speed communication between a server and a storage area network

# 7 Slot 64-bit/66MHz PCI-to-PCI Expansion System

## Plan Ahead

Planning ahead is easier said than done. Companies world-wide are forced to juggle short-term risk and return with long term stability to stay profitable in today's volatile economy. A common financial question that IT decision-makers are confronted with is, "Should we invest our resources up front to build our IT infrastructure, or should we scale the infrastructure as our company grows?" Even with the introduction of more robust desktops and servers, the need for increased functionality of high bandwidth applications has still not been satisfied. Regardless of how well you plan your IT spending, at some point in the future you will need to add, or increase the functionality of your desktops or servers. Instead of buying another expensive computing platform, connect your existing machine to a MAGMA PCI Expansion System.

MAGMA's patented 7 Slot, 64-bit/66MHz PCI-to-PCI Expansion Systems provide seven 64/66 PCI slots in a separate enclosure (rack-mount or tower) that connects to a host desktop or server through an available PCI slot. Utilizing serialized bridging technology, everything installed in the enclosure actually acts as if it's inside the host computer. This is accomplished by the system communicating to the host via a standard three meter, high-speed 5 Gigabit full-duplex link...providing up to a 528 Megabytes/second data transfer rate between the host computer and the hardware within the expansion system.

In addition, by using MAGMA's patented techniques, you can add seven 64-bit/66MHz (64/66) PCI slots on a single bus segment (using a single bridge chip) vs. four 64/66 PCI slots in a common single PCI bus segment. As a result, our solution provides a compelling value proposition for those who want to maximize the functionality of their host system, while minimizing the costs and performance degradation commonly associated with multiple bridge chips.

Common applications benefiting from MAGMA's PCI Expansion Systems include: Storage (SAN, NAS), Medical Imaging, Video Processing, Military, Industrial Automation/Control, Test & Measurement, Telephony, Aerospace, Video Effects and Video Capture.

## How to Buy

All MAGMA products can be purchased factory direct or through a reseller. Reseller listings are available at [www.magma.com](http://www.magma.com).

Non-Enclosed PCI Expansion Board Sets are available for OEM integration. You provide the enclosure and power supply, we provide the Serial Link Technology.

P7R46S: 7 Slot 64/66 Rack-mount enclosure with 400W PS

P7R6S: 7 Slot 64/66 Rack-mount enclosure with 300W redundant PS

P7T46S: 7 Slot 64/66 Tower enclosure with 400W PS

### Contact Information:

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## Specifications

Backplane .....	Seven 64-bit/66MHz PCI slots
Standard Expansion Cable Length .....	3 meters
Maximum Expansion Cable Length .....	15 meters
PCI Local Bus Specification .....	Revision 2.2
PCI Bridge Architecture Specification .....	Revision 2.1
Interconnect Bandwidth .....	5 Gbps full duplex
MTBF .....	53,000 hours
Operating Environment .....	0° to 50° C Operating Temperature -20° to 60° C Storage Temperature 5% to 85% Relative Humidity, Non-condensing
Supported Operating Systems .....	Win XP, Win 2000, Win NT, Win ME, Win 98SE, Mac OS X (version 10.2.2+), Mac OS 9.x, Red Hat Linux 9 and Solaris 9

## Rack-mount Specifications

Enclosure .....	4U rack-mount (all steel)
Dimensions .....	19 x 7 x 17.7" (48.26 x 17.78 x 44.96cm)
Weight .....	24lbs (11.80kg)
Cooling .....	One 70-105 CFM fan (removable/cleanable air filter)
Power Supply .....	300W (auto-switching AC) is standard. 400W (auto-switching), and Hot-swappable 300W (redundant) with audible alarm reset are optional
Available Options .....	Disk Drive Bays for up to eight 3.5" internal disk drives (PN: RDRIVECAGE) and 18" Rack-mount Slide Kit (PN: RSLIDES)

## Tower Specifications

Enclosure .....	ATX Mid-Tower (Steel Chassis with Plastic Front Panel)
Dimensions .....	7 x 18.1 x 17.3" (17.78 x 45.97 x 43.94cm)
Weight .....	22 lbs (10kg)
Cooling .....	One 35 CFM high volume fan
Disk Drive Bays .....	For three 5.25" external, one 3.5" external and three 3.5" internal
Power Supply .....	400W (auto-switching)

## Requirements

PCI-based host computer or server with an available 32-bit/33MHz, 64-bit/33MHz, 64-bit/66MHz, or PCI-X PCI slot. The expansion system can perform as fast as the host slot up to 64-bit/66MHz.

## Certifications & Warranties

- CE Certified
- FCC Class A Verified
- UL Recognized
- 30 Day Money Back Guarantee
- 1 Year Return to Factory Warranty

## Compatibility

For the most up-to-date compatibility information, please visit [www.magma.com](http://www.magma.com)