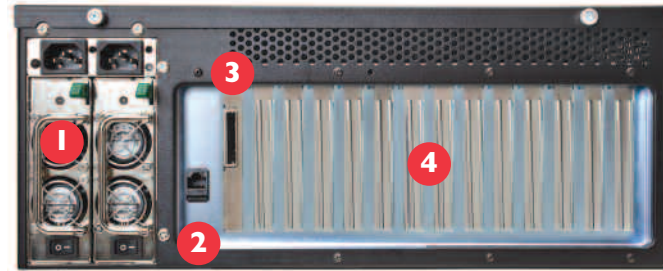


### PI3RR-RAS – Top View

1. Thirteen slot PCI backplane
2. PCI card hold down bar
3. Three cooling fans
4. Expansion cable
5. Host interface cards



### PI3RR-RAS – Rear View

1. Redundant, hot-swappable power supply
2. RJ45 Ethernet connection for SNMP monitoring
3. Expansion cable connection
4. PCI card slot openings



# Rugged 13 Slot PCI Expansion System

With Surveillance Pro 2 Remote Monitoring and SNMP Capability

Model PI3RR-RAS

## How to Buy:

All Magma products can be purchased online at [www.magma.com](http://www.magma.com) or through a reseller.

### Model Names:

PI3RR-RAS: 13 Slot PCI Expansion System with standard PCI host card  
 SUBPCIHIF32LP: Low Profile PCI host card option  
 SUBPEHIFX-CB: x1 PCI Express® host card option  
 SUBCBHIF: CardBus host card option

SUBEC54: ExpressCard/54 module option  
 SUBEC34: ExpressCard/34 module option  
 SUBCBL1.5HF: 1.5 meter cable option  
 RSLIDES-X: Chassis Trak® rack slides with extender bracket (18", 24", 26", 28" lengths)

## Specifications:

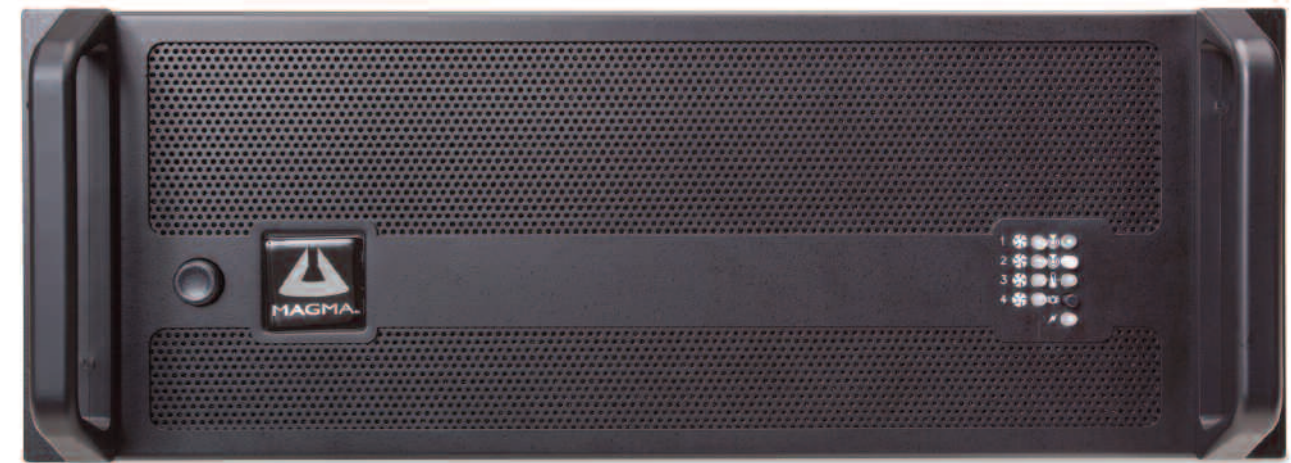
Backplane	Host Connections and Power Consumption	Regulatory Compliance
13 PCI slots (32-bit/33MHz) PCI Local Bus Specification: Revision 2.2 PCI Bridge Architecture Specification: Revision 1.2	Universal PCI 32/33: 0.63W max; 5V @ 0.125A; Low Profile PCI (64/33): 0.86W max; 3.3V @ 0.25A x1 PCI Express®: 0.69W max; 3.3V @ 0.21A CardBus (PCMCIA): 0.42W max; 3.3V @ 0.125A ExpressCard: 0.81W max; 3.3V @ 0.21A; 1.5V @ 0.08A	FCC Class A Verified RoHS Compliant  CE
Cable	Rack Installation	Supported Operating Systems
1-meter PCI expansion cable Optional 1.5-meter length	Optional Chassis Trak® rack slide kit	Windows Vista/XP/2000/Server 2003 Mac OS X Linux Kernel 2.6x+ Solaris
Interconnect Bandwidth	Chassis Power Supply	Warranty
132 MB/sec (Theoretical Max. of PCI 32/33)	Redundant 550W, hot-swappable AC Input: 90-264 VAC, 10.0A Input Frequency: 47-63HZ DC Output: 550Watts Max per module +12V 41.0 A maximum - 12V 1.0A maximum +5V 30.0 A maximum -5V 0.5 A maximum +3.3V 24.0A maximum	30 day money back guarantee 1 year return to factory
Enclosure	Environmental	
4U Black Rack-mount Hardened 16 gauge steel 19" x 7" x 18" 35 lbs or 15.9 kg Altitude: To 15k Ft. Op, To 40k Ft. Non-op Shock: 5G @ 10ms Op, 40G @ 10ms Non-op Vibration: 2.4rms, 5Hz To 500Hz	Ambient Temperature: 0° to 40° C, Storage Temperature: -20° to 60° Relative Humidity: 5% to 85%, non-condensing	
System Cooling	MTBF	
Two 42.5 CFM backplane fans Three 120 mm 92 CFM backplane fans One fan included in each power supply module	53,000 hours	



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## Increase server functionality and monitor the condition of critical components

- Add thirteen PCI slots to servers, desktop or laptop computers
- Includes redundant power supply
- Compatible with the Simple Network Management Protocol (SNMP)
- Expansion chassis supports 5 volt PCI, universal PCI and PCI-X cards
- Easy installation, no software required

The Magma PI3RR-RAS provides a simple solution for expanding the PCI expansion capability of your computer or server. The expansion chassis contains thirteen PCI slots that connect to the host computer through a host card and one-meter expansion cable.

### Rugged COTS Rack-mount Chassis

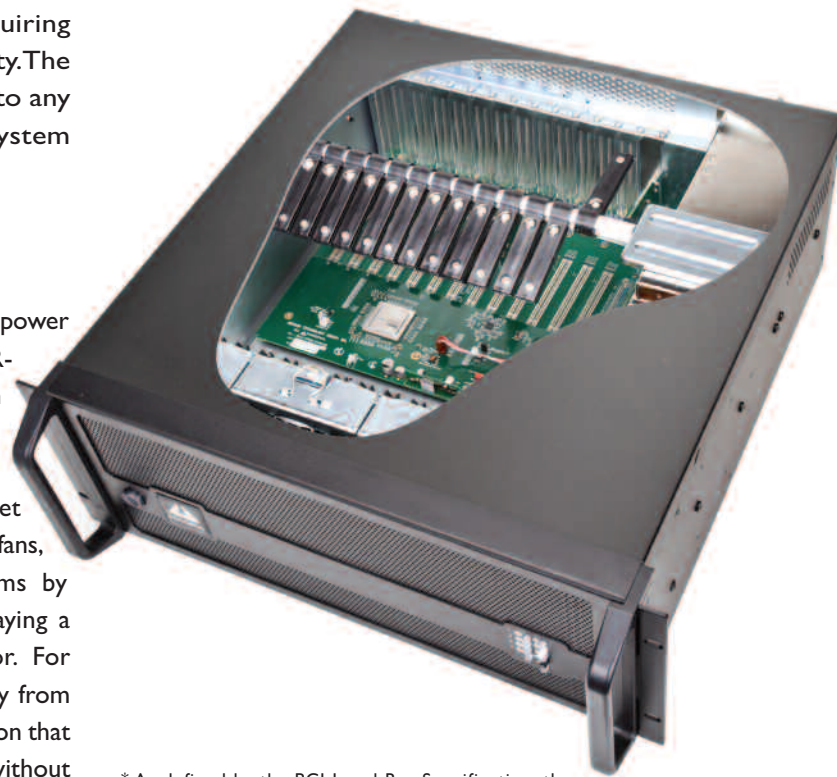
PI3RR-RAS is a rugged COTS (Commercial-Off-The-Shelf) expansion system designed specifically for industrial telephony and military-grade configurations requiring additional PCI slots and remote monitoring capability. The expansion system is designed to fit conveniently into any rack cabinet, and the included card hold down system keeps your cards securely in place.

### Remote Monitoring

In addition to the rugged chassis, hot-swappable redundant power supply and field-replaceable high volume fans, the PI3RR-RAS also features a critical component monitoring system inside the chassis. The Surveillance Pro 2 monitoring system adds the ability to remotely monitor the status of the PI3RR-RAS through a built-in web server and Ethernet connection. Surveillance Pro 2 monitors the power supply, fans, and chassis temperature, alerting you of any problems by sounding an audible alarm, sending an email, and displaying a message on the digital display on the front monitor. For convenience, the system can also be monitored remotely from an internet browser allowing you to retrieve the information that is displayed on the LCD of the chassis in near real time without leaving your desk.

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

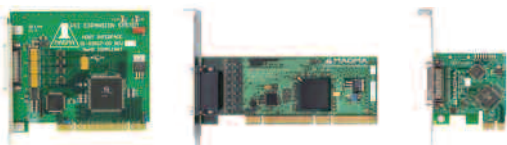
Magma expansion solutions provide a migration path to computers with a limited number of built-in PCI slots or no PCI slots at all. Magma products provide increased I/O capacity and scalability because multiple expansion systems can be combined to provide an almost unlimited number of PCI slots\* to 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.



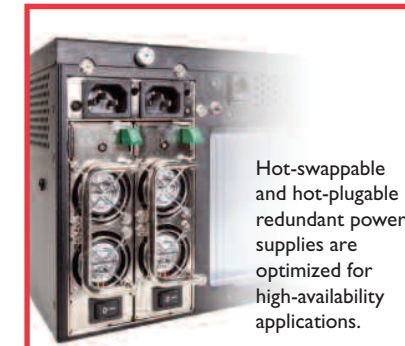
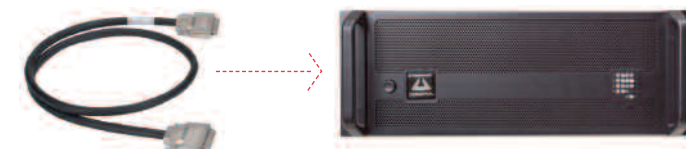
\* As defined by the PCI Local Bus Specification, the theoretical maximum per single computer is 255 PCI buses.

### Multiple host interface cards provide easy connection to practically any computer

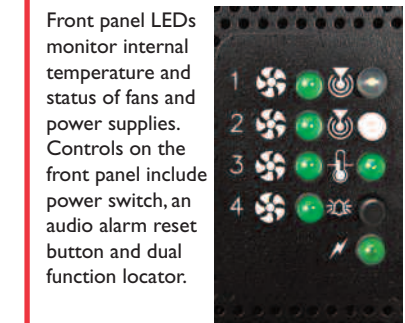
Desktop and Server Connections (PCI and PCI Express®)



Laptop Connections (CardBus and ExpressCard)



Hot-swappable and hot-plugable redundant power supplies are optimized for high-availability applications.



Front panel LEDs monitor internal temperature and status of fans and power supplies. Controls on the front panel include power switch, an audio alarm reset button and dual function locator.

### SNMP protocol support

The EB7-x8G2 RAS utilizes the SNMP protocol to monitor and report normal operation parameters as well as alerts and failure events. It offers the following features:

- Support for SNMP v2.
- Real time, Ethernet-based system health reporting is accessible via a standard web browser or an equivalent SNMP-based agent, while the chassis can support both DHCP and static IP setups.
- Flexible SNMP trap management allows for early detection of chassis failures. Such events include chassis overheating, swappable fan failure and swappable power supply failure.
- Real time reporting of chassis temperature as probed in two locations within the chassis is available via the same interface.
- SNMP agent supports managers across multiple platforms (DOS, Linux, UNIX etc.)

Contact Magma for assistance on your custom applications.



### Benefits:

- Rugged solution for adding PCI slots
- Multiple expansion systems can be used with a single computer
- Power supply, fans, and chassis temperature constantly monitored for failure status
- Equipped with display for visual failure status and audible alarm
- Surveillance Pro 2 provides failure alert via email or web browser
- Supports SNMP, enabling monitoring using industry-standard management information bases (MIBs)

### Features:

- Compatible with servers, desktop and laptop computers
- Easy Plug and Play installation
- Includes 1-meter expansion cable
- 13 slot backplane
- All slots support full-length universal and legacy 5 volt only PCI cards
- Constant critical component monitoring
- Designed to provide prompt correction when fault occurs
- Redundant 550 Watt dual power supply
- Hot-swappable fans dedicated to cooling PCI cards
- Equipped with superior EMI control, vibration, shock and moisture resistance
- PCI card hold down bar prevents cards from being dislodged during transportation
- Redundant 550 Watt dual power supply
- Hot-swappable fans dedicated to cooling PCI cards
- Field-replaceable cooling fans dedicated to cooling PCI cards
- Optional Chassis Trak® rack slide kit for rack cabinet installation
- Designed to meet MIL-STD-461E