

PCI Expansion unit with 13 Slots

19" 4U Expansion System

Model P13R
Model P13RR



Add thirteen PCI slots and four drive bays in a separate enclosure

- Compatible with practically any computer ranging from laptop to desktop computers
- Attach standard size PCI card to computers with low-profile PCI slots, or only PCI Express slots
- Attach standard size PCI card to laptops through PCMCIA or ExpressCard
- Support for any 12" or shorter PCI and PCI-X card
- Rack mountable 4U enclosure with fans for the system and the PCI cards

Prolong your investment

Need to upgrade your server or desktop computer? Got a small footprint computer and full-sized PCI cards? Don't want to lose your investment in pricey PCI cards that don't fit the new computer? Simply need more PCI slots or storage space? Are your full-sized, power-hungry, high-heat-generating PCI cards dragging your computer down? You can install practically any PCI card into our PCI Expansion System and connect it to your new or old server or desktop computer through a variety of host cards. The 13 Slot PCI Expansion System is a 4U, rack mountable chassis that allows you to plug-in up to seven (13) full-sized power-demanding PCI cards and up to four (9) 3.5" hard drives.

Increase I/O Capability

There are numerous performance and functionality hungry professionals that simply need more PCI slots than a typical computer provides. Even with the introduction of more robust desktop computers and servers, increased I/O capability is still required. If you have a powerful application that requires the use of several PCI cards, increase the number of PCI slots in your system with a PCI Expansion System.

Flexible System

The use of computer specific host cards makes using your unique PCI cards and vital data as simple as "Plug & Play" because all you need to do is to connect our PCI Expansion System to the host card for your computer and turn it on. Use the same PCI cards on your laptop as you do on your desktop or server – just add our CardBus or ExpressCard and connect the cable. The auto-switching power supply even allows you to work internationally by simply adding a power cord plug adapter.

Host cards are available for the following systems: (1) Laptop: CardBus or ExpressCard and (2) Desktop/Server: 32 or 64-Bit PCI, or x1 PCI Express.

Familiarity Breeds Success

Setting up your PCI cards and data in one chassis provides you an opportunity to use a consistent hardware configuration – regardless of what type of computer is available. Being able to "hit the ground running" is vital to every successful venture. Being able to use "the same PCI cards," regardless of location also reduces project risks.



Applications

- Medical Imaging (Framegrabber)
- Camera Interface
- Video Processing
- Military
- Aerospace
- Industrial Automation/Control
- Test & Measurement
- Audio Editing

Multiple host interface cards provide easy connection to practically any computer

Desktop and Server Connections (PCI and PCI Express®)



or



Laptop Connections (CardBus and ExpressCard)



or



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



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



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:

- Increase number of PCI slots without replacing your computer
- Attach full-height PCI cards to computers with low-profile slots
- The only solution for adding multiple PCI cards to mobile computers
- Multiple expansion systems can be connected to a single computer
- Offers a consistent PCI configuration allowing easy host computer upgrades
- Patented technology provides low latency and high through-put
- Proven method to increase PCI capability without losing performance
- Non-enclosed board-sets are available for OEMs and System Integrators to utilize their own enclosure

Features:

- Easy Plug and Play installation
- PCI and PCI Express® host card provides easy connection to desktop computers and servers
- CardBus and ExpressCard modules provide connection to your favorite laptop computer
- Includes 1-meter expansion cable
- 13 slot PCI backplane
- All slots support full-length or shorter universal and legacy 5 volt only PCI cards
- 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

Non-Enclosed Board Sets for OEMs

ATX Backplane and Expansion Interface



13-Slot PCI Expansion board set

Host Connections



or

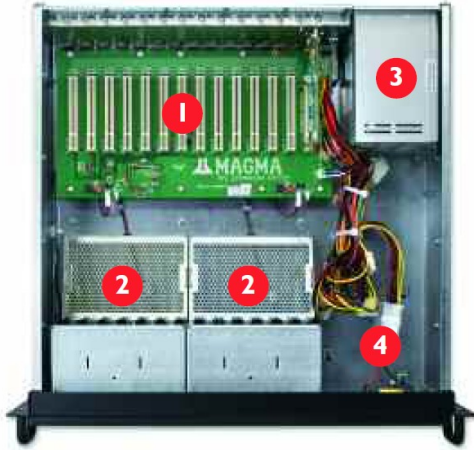


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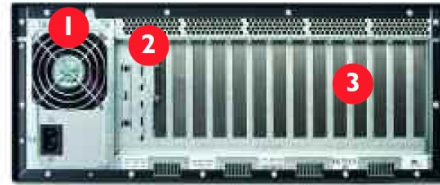
Order Informations OEM version:

Order number	Model	Description	Order number	Model	Description
WM4-900-100	P13NE	13-Slot PCI Expansion ATX board set 32bit/33MHz (Please select one Interface)	WM1-125-130	SUB-CBHIF68	Standard PCI host card option
WM1-125-100	SUB-CBHIF	CardBus (PCMCIA) host card option	WM1-125-140	SUB-HIFX1	x1 PCI Express® host card option
WM1-125-120	SUB-EC34	ExpressCard/34 host card option	Cable options		
			WM1-200-100	SUB-CBL1.5	1.5 meter cable instead the standard 1 meter



13 Slot - Top View

1. Thirteen slot PCI backplane
2. Cooling fan assembly
3. Power supply
4. Space for optional drive bays
5. Expansion cable
6. Host interface cards



13 Slot - Rear View

1. 400 Watt Power supply (Optional redundant power not shown)
2. Expansion cable connection
3. PCI card slot opening



Specifications:

Backplane	Host Connections and Power Consumption	System Cooling
13 PCI slot PCI Local Bus Specification: Revision 2.3 PCI Bridge Architecture Specification: Revi. 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	Two big 82,5 CFM fans (switchable with two speeds)
Cable	Power Supply	Regulatory Compliance
1-meter PCI expansion cable Optional 1.5-meter length	Power Supply: 400W internal AC Input 90—264 VAC Input Frequency 47 to 63 Hz Input Current 10A/5A	FCC Class A Verified CE Certified
Interconnect Bandwidth	DC Output	Supported Operating Systems
132 MB/sec (Theoretical Max. of PCI 32/33)	+3.3V 30.0 A Max 33,3 W +5V 40.0 A Max 200 W -5V 0.5 A Max 2.5 W +12V 15.0 A Max 180 W -12V 1.0 A Max 12 W +5Vsb 2.0 Max 10 W 220W maximum of +5V and +3.3 V combined 400W Redundant, Hot-Swap (optional)	Windows MacOS Linux Kernel Solaris)
Enclosure	Environmental	Warranty
4U Black Rack-mount 19"W x 7"H x 17.7"D (482.6mmxBx177.8 mm Hx449.58mm T) 24lbs or 11.804 kg	Ambient Temperature: 0° to 50° C, Storage Temperature: -20° to 60 Relative Humidity: 5% to 85%, non-condensing	1 year return to factory
Hard Drive Support	MTBF	
Optional drive cage with cooling fan holds four 3.5" internal disk drives. Maximum of two drive cages per system.	37.000 hours	
Rack Installation		
Optional Chassis Track® rackside kit Optional PCI card hold down kit		

Order Informations:

Order No.	Model	Description	Order number	Model	Description
32-bit / 33MHz			Host Interface options		
WM4-100-100	P13R	13 Slot PCI Expansion System 32-bit/33MHz with 400 Watt Power supply (please select one SUB-XXXX Interface)	WM1-125-100	SUB-CBHIF	CardBus (PCMCIA) host card option
WM4-100-110	P13RR	13 Slot PCI Expansion System 32-bit/33MHz with 400 Watt Redundant, Hot-Swap Power supplies	WM1-125-120	SUB-EC34	ExpressCard/34 host card option
Rack Options			WM1-125-130	SUB-CBHIF68	Standard PCI host card option
			WM1-125-140	SUB-HIFX1	X1 PCI Express host card option
WM1-300-100	RDRIVECAGE	: Drive cage with fan	Cable options		
WM1-126-160	RCHD7	PCI card hold down kit	WM1-200-100	SUB-CBL1.5	1.5 meter cable instead the standard 1 meter
WM1-126-1xx	RDLIDES-X	Chassis Trak® rack slides with extender bracket (18", 24", 26", 28", lengths)			