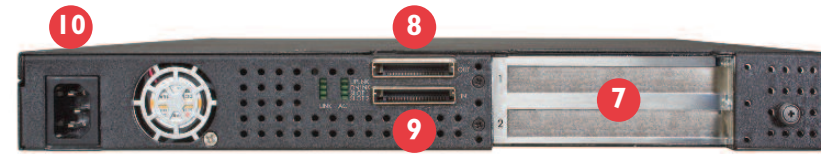## ExpressBox² – Top View

1. Two PCI Express slots
2. Backplane cooling fan assembly with card guides for full-length cards
3. 200W, 100-240V, 47-63HZ Power Supply
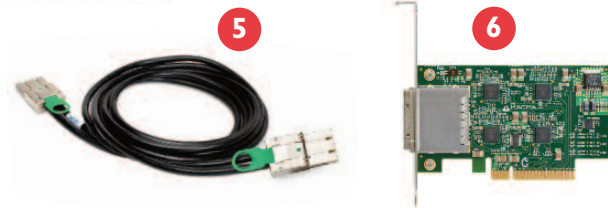4. Space for up to two 3.5" or four 2.5" internal hard drives

ExpressBox² – Rear View

7. PCI Express card slot openings
8. iPass connector to downstream expansion chassis
9. iPass connector to host computer
10. Power cord socket

Hardware Included

5. iPass cable
6. PCI Express host card

ExpressBox²

2 Slot PCI Express® Expansion System

http://www.ndttech.net/cn/product/pci_expansion/EB2.html

Model EB2/EB2R

How to Buy:

All Magma products can be purchased online at www.ndttech.net or call us at 0731-84668116

Model Names:	Options:
EB2: 2 Slot PCI Express Expansion, 1U form factor, for laptops Includes: ExpressCard, iPass x8 to TDP cable, Quiet fans	Contact Magma Sales for: Conversion of EB2 to EB2R Conversion of EB2R to EB2
EB2R: 2 Slot PCI Express Expansion, 1U form factor, for desktop/server Includes PCI Express Host Card, iPass cable, high CFM fans, Rack mount slides	

Specifications:

Backplane
(2) PCI Express slots
x16 connectors, x8 slot speeds

Cable
EB2R: 3-meter iPass Cable
EB2: 3-meter TDP Cable

Interconnect Bandwidth
2GBytes/sec simplex
4GBytes/sec full duplex

Enclosure
1U Rack-mount
14.3" wide, 1.75" High, 16.3" Depth
6.0 lbs or 2.7Kg

System Cooling
EB2R: Two 40 x 20 mm, 15.8 CFM Backplane fans
EB2: Two 40 x 20 mm, 5.9 CFM Backplane fans
Power Supply Has Integral Cooling Fan

Hard Drive Support
Drive brackets for 2 hard drives

Host Connections and Power Consumption
x8 PCI Express Interface Card, x8 slot speeds
Low profile
4 Watt power consumption
PCI Express Bus Specification Revision 1.1

Chassis Power Supply
AC Input: 100-240 VAC
Input Frequency: 47-63HZ
Input Current: 6.3A Max
DC Output: 200 Watts Max
+12Vdc 15.0A maximum
-12Vdc 0.3A maximum
+5Vdc 13.0A maximum
-5Vdc 0.5A maximum
+5Vdc (sb) 2.0A maximum
+3.3Vdc 17.0A maximum
Four 4 pin Molex HD Power Connectors

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
RoHS Compliant

Supported Operating Systems
Windows XP/Vista 2000 Server 2003
MacOS X 10.4+
Linux Kernel 2.6x+
Solaris

Warranty
30 day money back guarantee
3 year parts and labor

Distributor in China
Changsha Pengxiang Technology

Toll Free: 4006 010 842
Telephone: 0731-84668116
Fax: 0731-84668126
E-mail: sales@ndttech.net

Visit us online @ www.ndttech.net

© 2008 Magma. Magma is a trademark of Mission Technology Group, Inc. All other brand names and logos are trademarks or registered trademarks of their respective owners. United States and foreign patents pending. Specifications are subject to change without notice.

70-02360-40-A

Seamlessly expand your desktop, server, workstation and laptop with PCI Express Slots

- Add 2 full-length or 1 double-wide PCI Express cards through a single PCIe (desktop) or ExpressCard (laptop) slot
- Supports most PCI Express form factors

PCI EXPRESS®

The Magma PCI Express to PCI Express Expansion system provides a simple, cost-effective solution for expanding the available PCI Express slots of workstations and servers. This provides an efficient way to maximize your workstation or server's total I/O capability and limit the number of CPUs required in your system.

Cost-effective Solution for Expanding I/O capacity

Magma's ExpressBox[2] provides the ability to expand the I/O capabilities of workstation and servers by allowing for the addition of PCI Express slots. These much needed slots can then take full-length PCI Express I/O cards. This is accomplished with a host card in one slot of the host backplane connected to the chassis via a cable.
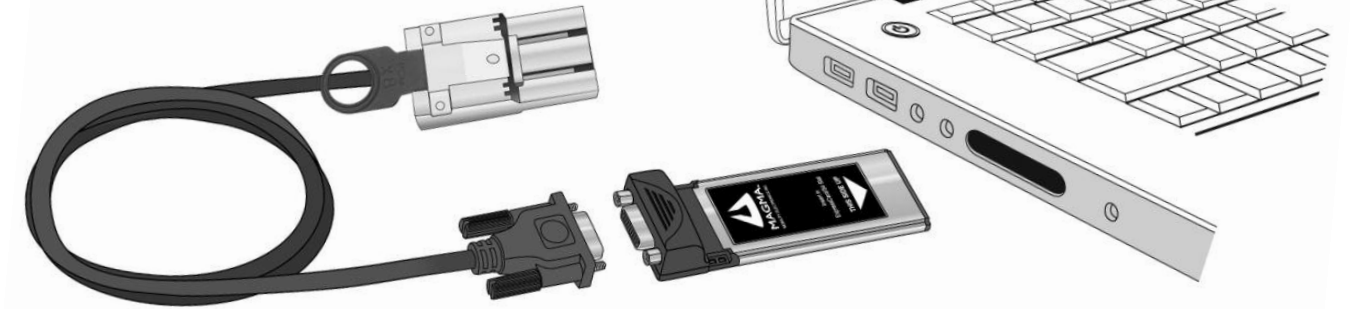
Easy Installation

Magma ExpressBox[2] consists of a PCI Express Host Card, a cable and a chassis. Magma ExpressBox[2] is automatically configured by the System BIOS making all of the slots appear transparent to the host computer.

Optimal method to enhancing your PCI Express I/O capabilities

ExpressBox[2] is an expansion chassis in 1U in height that provides 2 full-length PCI Express slots to the host. These chasses can be daisy-chained to provide as many PCI Express slots as the Root Complex of the host will allow.

How it Works

1 Install 2 full-length PCIe cards in ExpressBox2 Chassis

2 Install Magma Host Card in Computer or Server

3 Connect ExpressBox[2] – multiple expansion chassis can be daisy-chained without requiring additional slots

The ExpressBox[2] provides PCI Express expansion for laptops with the optional Magma ExpressCard and TDP interface cable.

Link lights on the EB2 back panel verify the uplink between the expansion chassis and host machine, and assure each PCI Express card is connected properly.
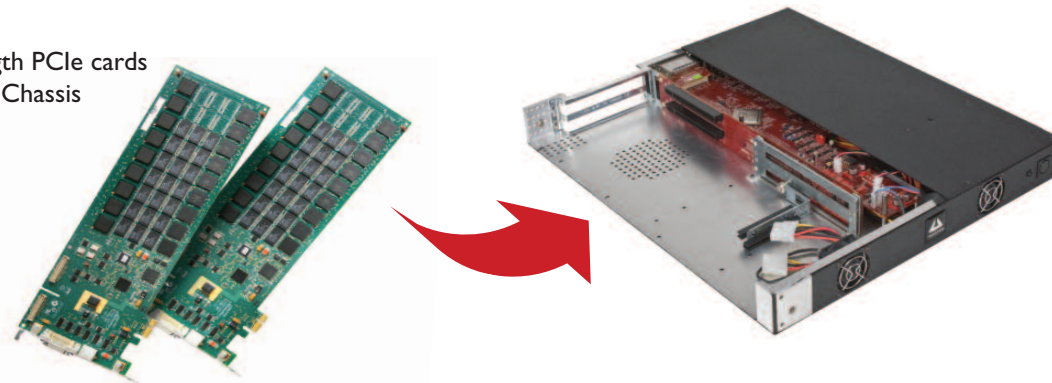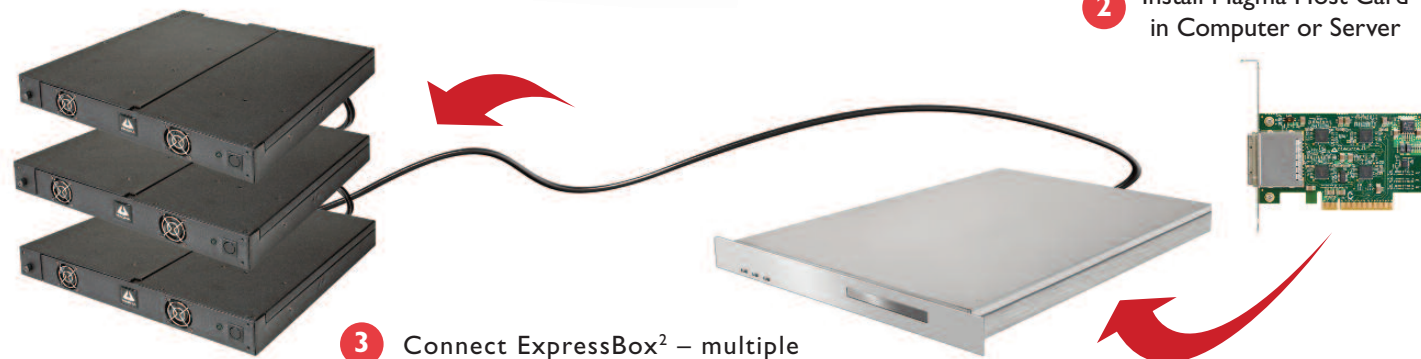
UPLNK
DNLNK
SLOT 1
SLOT 2

LINK   ACT

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

Benefits:

- Industrial solution for adding up to 2 PCI Express cards to one computer
- Attach full-length PCI Express cards to computer with limited card space
- Low profile host card allows for easy installation in low profile computers
- Supports Hot Swappable PCI Express slots

- Supports peer to peer transfers between cards in slots of the expansion chassis
- Built-in auxiliary power connection to PCI Express cards
- Supports automatic power up control of the chassis by the host
- Supports user selectable bypass of Hot Swappable feature

Features:

- Easy "Plug and Play" installation
- Easily visible LEDs indicate correct installation
- Includes x8 PCI Express host card and 3 meter iPass cable
- All slots support any combination of x1, x4, x8 and x16 PCI Express cards
- Transparent extension of PCI Express signals outside the computer
- All slots support full-length cards

- 1U rack-mount enclosure
- 200W power supply
- Dedicated fan for cooling cards with high heat dissipation
- Thermister controlled fan speeds help reduce unnecessary noise
- CE certified and FCC Class A verified
- RoHS compliant
- 30 day money back guarantee