**MAGMA**

# ExpressBox 7 - x8G2

## 7 Slot PCI Express® Expansion System

http://www.ndttech.net/cn/product/pci_expansion/EB7.html

**Seamlessly expand servers and workstations with PCI Express slots**

- Add (7) PCI Express slots through a single host slot
- Use any combination of x1, x4, x8, and x16 PCIe cards
- Hot-Pluggable PCIe Slots
- Supports speeds up to 40Gbps
- Board-sets available for OEMs

**PCI EXPRESS®**

Magma PCI Express Expansion System are an easy solution for expanding the available PCI Express slots of workstations and servers. This allows for significant cost savings to companies since it eliminates the need to invest in new computer hardware to be able to accommodate the growing need of I/O expandability.
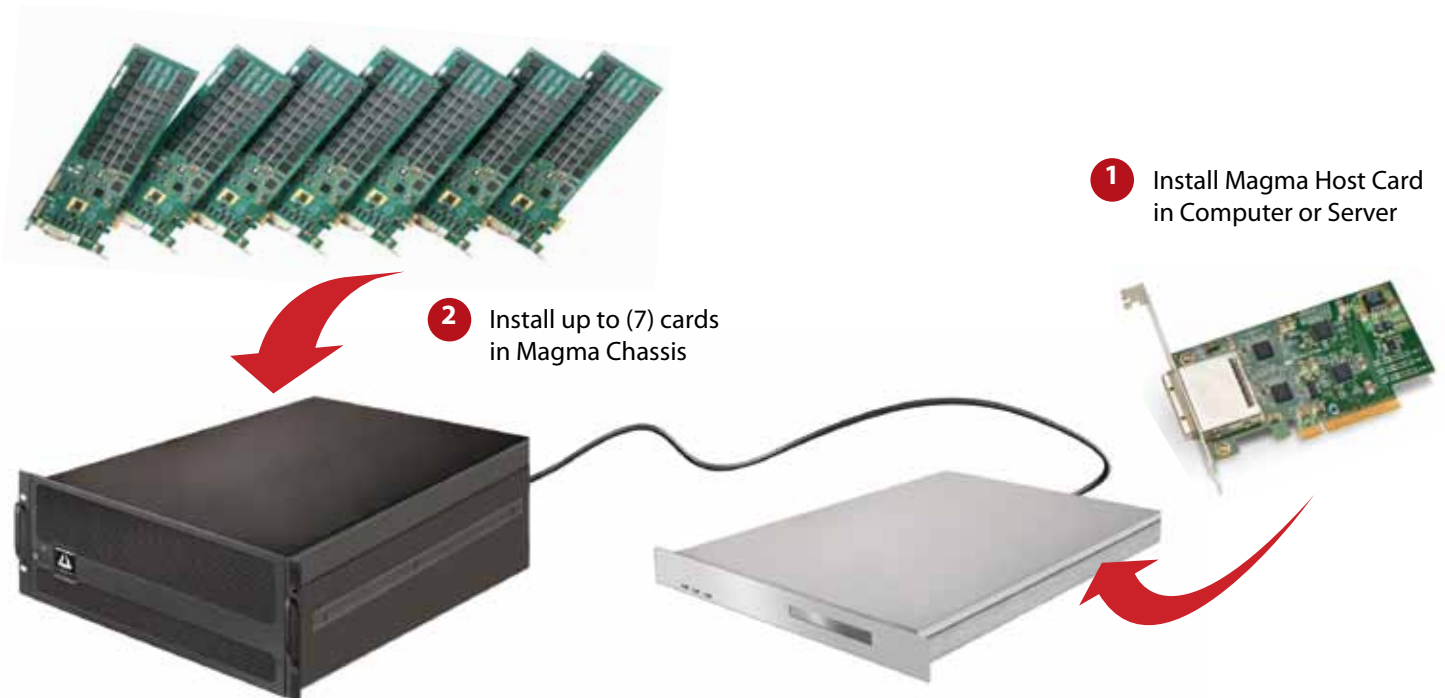
## Expand I/O capacity

Magma ExpressBox 7 - x8 Gen 2 provides a cost-effective path to expand the available number of PCI Express slots while maintaining consistent server or workstation configuration. The product provides increased I/O capacity and scalability.

## Easy Installation

ExpressBox 7 - x8 Gen 2 provides 7 full-length PCI Express slots in a stand-alone chassis with its own power supply. The PCI Express slots are hot-swappable. The chassis allows the flexibility to expand the I/O capabilities of a server or workstation seamlessly capitalizing on the transparency of PCI Express architecture.
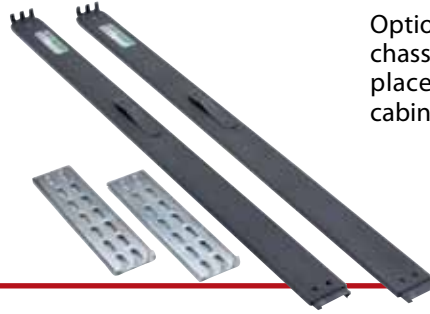
## How it Works



**1** Install Magma Host Card in Computer or Server

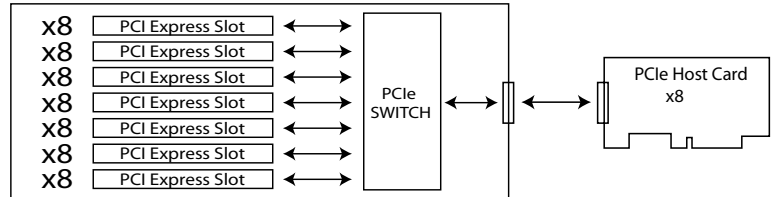**2** Install up to (7) cards in Magma Chassis

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

Optional rack slides allow entire chassis to be removed and re-placed easily from a 4-post rack cabinet.

Optional drive cage with cooling fan holds four 3.5" internal disk drives.

| x8 | PCI Express Slot |
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| x8 | PCI Express Slot |
| x8 | PCI Express Slot |
| x8 | PCI Express Slot |

PCIe SWITCH

PCIe Host Card x8

Board sets includes host card, cable and backplane for OEMs and system Integrators who wish to use their own enclosure.

Link lights on the back panel verify the up-link between the expansion chassis and host computer to assure each card is connected properly.

LINKUP
0 1 2 3    4 5 6 7

## Benefits:

- Transparent extension of PCI Express signals outside the computer
- Industry standard solution for adding up to 7 PCI Express cards to one computer
- Attach full-length PCI Express cards to computer with limited card space
- Individual PCI Express slots can be turned off without powering down entire system
- Low profile host card allows for easy installation in low profile computers

- Supports peer-to-peer transfers between cards in the expansion chassis to provide full bandwidth potential among I/O cards
- Supports daisy chain or fan out configuration of multiple expansion chassis

## Features:

- Easy "Plug and Play" installation
- Easily visible LEDs indicate correct installation
- High-speed x8 PCI Express connection
- 4U rack-mount enclosure
- Two thermistor controlled CFM fans reduce unnecessary noise. Higher CFM fans available for hot environments

- All slots support full-length cards
- 550W power supply with (7) auxiliary power connectors for cards that require more than 75 watts
- Automatic power-up control by computer
- Hot swappable slots can be easily disabled by dip-switch

## EB7-X8G2 – Top View

1. Seven PCI Express slots
2. Backplane cooling fan assembly with slot holders for full-length cards
3. Power Supply

## Hardware Included

5. iPass cable
6. PCI Express Host Card

## EB7-X8G2 – Rear View

7. PCI Express card slot opening
8. Expansion interface card
9. Power cord socket

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## Configurations:

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

**Model Names:**

EB7-X8G2: ExpressBox 7 - x8G2
Seven x8 PCIe slots with 550W power supply

**Options:**

RDRIVECAGE: Drive cage with fan
RCHD7: Card hold down kit
RSLIDES: Rack slides (18", 26"or 28" lengths)
SUBFAN-HICFM: 115 CFM cooling fans for extra hot cards

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## Specifications:

### Technology

PCI Express Bus Specification Revision 2.0
PCI Local Bus Specification Revision 2.3
PCI Bridge Architecture Revision 1.2
PCI Hot-Plug Specification 1.1

### Backplane

8 PCIe slots, 1 dedicated for expansion interface
x8 PCIe Gen 2 slot speeds (x16 connectors)
Hot-Pluggable slots

### Host Card

Low profile - x8 PCIe
1.25A @ +3.3V maximum

### Cable

3-meter iPass

### Interconnect Bandwidth

40Gbps (PCIe x8 Gen 2)

### Enclosure

4U Rack-mount
19" Wide x 7" High x 17.7" Deep
Removable/cleanable air filter
24 lbs or 11.840Kg

### System Cooling

Two 69 CFM Fans
One Power Supply Fan
Upgrade to 115 CFM fan with SUBFAN-HICFM

### Optional Chassis Features

Rack slide kit
Card hold down bar
Drive cages for up to (4) HDDs

### Power Supply

550W Power Supply
AC Input: 100-240 VAC, 50-60HZ

| | |
|---|---|
| +12V | 36.0 A maximum |
| - 12V | 3.0A maximum |
| + 5V | 36.0 A maximum |
| +3.3V | 28.0A maximum |
| +5Vsb | 3.0A maximum |

### Environmental

Ambient Temperature 0º to 50º C
Storage Temperature -20º to 60º C
Relative Humidity: 5% to 85% non-condensing

### MTBF

100,000 Hours

### Regulatory Compliance

FCC Class A Verified
CE Certified
UL/CIL Listed I.T.E. (E211209)
RoHS Compliant

### Supported Operating Systems

Windows
MacOS
Linux
Solaris

### Warranty

Money back guarantee
1 year return to factory

Distributor in China
Changsha Pengxiang Technology

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