

# ExpressBox 16 Basic

## 16 Slot PCI Express® Expansion System

[http://www.ndttech.net/cn/product/pci\\_expansion/EB16.html](http://www.ndttech.net/cn/product/pci_expansion/EB16.html)



### Seamlessly expand your server or workstations with PCI Express slots

- Add (16) slots through a single host slot
- Use any combination of x1, x4, x8 and x16 cards
- Supports speeds up to 80Gbps
- x8 or x16 interconnect options
- 850W, 1700W or 850W redundant power supply
- Board-sets available for OEMs

PCI EXPRESS®

# Rugged, Versatile PCI Express® Expansion

*Easily Connect up to 16 Full Length Cards*

## High-Bandwidth Expansion

Magma's ExpressBox 16 Basic is the simplest solution to seamlessly increase the number of PCI Express® slots available to your server or workstation. ExpressBox 16 expands one host PCIe® slot to sixteen slots by extending PCI Express signals over a high-bandwidth x8 or x16 connection to an external Magma enclosure.

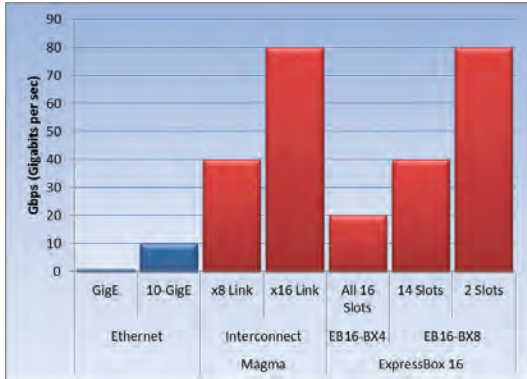
ExpressBox 16 consists of a pair of interface cards (x8 or x16), an iPass cable and a 4U rack-mount expansion chassis. The Magma expansion chassis is automatically configured by the System BIOS, with the expansion slots appearing transparently on the host computer.



- Hot-swappable fans provide direct cooling for PCIe cards
- Card Retainers keep cards securely in place and are adjustable to fit any size card
- Optional redundant hot-swappable power supply







**Choose X8 or X16 interconnect for SPEEDS UP TO 80Gbps!**

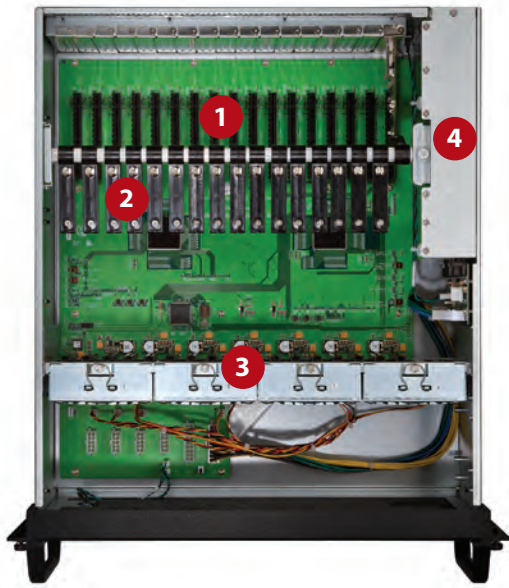


## Benefits:

- Transparent extension of PCI Express signals outside the computer
- Industrial solution for adding up to sixteen PCI Express slots to one computer
- Use any combination of PCIe x1, x4, x8 and x16
- Attach full-length PCI Express cards computers with limited card space
- 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
- Daisy chain or fan out multiple expansion chassis to one computer

## Features:

- Easy "Plug and Play" installation
- LEDs on backplane indicate active link, speed (Gen 1 or Gen 2), partial or complete lane training
- High-speed x8 or x16 interconnection
- Industrial 4U rack-mount enclosure
- Chassis provides superior EMI control, vibration, shock and moisture resistance
- Card hold down retainer
- All slots support full-length cards
- Four hot-swappable cooling fans
- Multiple power supply options with auxiliary power connectors to support cards requiring more than 75 Watts
- Automatic power-up control by computer



## EB16 – Top View

1. Sixteen PCI Express slots
2. Card Retainers
3. Cooling fans (Hot-Swappable)
4. Power Supply



## EB16 – Rear View

5. PCI Express card slot opening
6. iPass connector for cable
7. Power cord socket(s)
8. Power Switch

## Hardware Included

9. 3m iPass cable
10. PCI Express Host Card (x8 or x16)



## Configurations:

All Magma products can be purchased online at [www.ndttech.net](http://www.ndttech.net) or call us at 0731-84668116

### Base Models:

- EB16-BX4: ExpressBox 16 - (16) x4 PCIe slots
- EB16-BX8: ExpressBox 16 - (14) x8 and (2) x16 PCIe slots



### Interconnect Options:

- X8 connection to computer
- X16 connection to computer

### Power Supply Options:

- Standard 850 Watt
- Standard 1700 Watt
- Redundant 850 Watt

## Specifications:

Technology	System Cooling	Regulatory Compliance
PCI Express Bus Specification Revision 2.0 PCI Local Bus Specification Revision 2.3 PCI Bridge Architecture Revision 1.2	Four 77CFM Backplane Fans - hot-swappable Power Supply Fan(s)	FCC Class A Verified RoHS Compliant 
Backplane	Host Connections and Power Consumption	Supported Operating Systems
EB16-BX4 - 16 slots, x4 PCIe EB16-BX8 - 14 slots, x8 PCIe & 2 slots, x16 PCIe	Low profile x8 PCIe: 1.25A @ +3.3V maximum x16 PCIe: 1.5A @ +3.3V maximum	Windows MacOS X Linux Solaris
Cable	Chassis Power Supply	Warranty
3-meter iPass	850 Watt, 1700 Watt or 850 Watt Redundant 100-240 VAC, 47-63 Hz Power Input 12V @ 60 Amps 3.3V @ 33 Amps	Money back guarantee 1 year return to factory
Interconnect Bandwidth	Environmental	 <p>Distributor in China Changsha Pengxiang Technology</p> <p>Toll Free: 4006 010 842 Telephone: 0731-84668116 Fax: 0731-84668126 E-mail: <a href="mailto:sales@ndttech.net">sales@ndttech.net</a></p> <p>Visit us online @ <a href="http://www.ndttech.net">www.ndttech.net</a></p> <p>©2011 Magma. Magma and ExpressBox are trademarks of Mission Technology Group, Inc. All trademarks are the property of the respective trademark owners. Specifications are subject to change without notice.</p>
40Gbps (PCIe x8 Gen 2) 80Gbps (PCIe x16 Gen 2)	Ambient Temperature 0° to 50° C Storage Temperature -55° to 125° C Relative Humidity: 0% to 90% non-condensing	
Enclosure	MTBF	
4U Rack-mount 19" W x 7" H x 20" D Removable/cleanable air filter 28 lbs or 13Kg	850W standard power supply - 185,600 hrs 1700W dual standard power supply - 106,600 hrs 850W redundant power supply - 720,000 hrs	
Rack Installation		
Optional Chassis Trak® rack slide kit		