

# ExpressBox 3450

HPC PCIe Gen 3 Expansion Chassis



## Compact Workstation Optimized for (4) Double-Wide GPUs + (1) Single-Wide Peripheral

Magma's ExpressBox 3450 provides optimal GPU and other HPC peripheral expansion to existing host computer systems. Designed to support full Gen 3 x16 PCIe connectivity to all devices, the EB3450 is a perfect companion to both workstations and servers. Up to four double wide (e.g. GPU) and one single wide PCIe devices are supported through expansion.

The EB3450 supports fan speed control which allows the support of a variety of peripherals including workstation class GPUs for quiet deskside HPC. The EB3450 is ideal for media and entertainment, oil and gas exploration, finance, simulation and virtualization. Server class GPU devices are supported with higher airflow for data center applications. The EB3450 includes Magma's Express I/O for system control, monitoring and alarming.



### OVERVIEW

- Accommodates 4 double wide GPUs and one single wide peripheral
- PCIe Gen 3 x16 (128Gbps) for all connections
- Supports both workstation and server class GPUs
- Designed for HPC peripherals (SSDs and GPUs)
- Rack shelf and desktop compatible

### FEATURES

- Passive host interface; no PCIe switch on host link cards provides lowest latency possible
- Two 1200W/1500W hot swappable power supplies standard
- Direct flow through air cooling for maximum cooling efficiency with fan speed control

### BENEFITS

- Design optimized for GPU applications - concentrate your HPC investment in a chassis that will support full GPU performance utilization
- Low-profile host card allows for easy installation into 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-chaining of fan-out configuration of multiple expansion chassis

### MODEL

ExpressBox 3450

- One five slot backplane mounted in 1/2 19" rack width chassis; Supports up to 4 GPUs + 1 single slot device
- Two 1200W/1500W PSUs

### TECHNOLOGY

PCI Express Bus Specification 3.0, 2.3;  
PCI Bridge Architecture Revision 1.2

### POWER SUPPLY OPTIONS

- Additional Hot swappable 1200W@120V/1500W@240V AC power supplies may be ordered as spares

### BACKPLANE

Five peripheral slots and one host link slots

### HOST CONNECTION

Host side: Any PCIe based host-equipped computer (preferably Gen 3 x16)

Expansion side: All host links are Gen 3 x16 capable and will train down to Gen 2 or 1 as needed

Switchless host link adapter design for minimal host/expansion latency

1m or 2m cable lengths are supported for host interface

### INTERCONNECT BANDWIDTH

PCIe Gen 3 x16: 128 Gbits/sec to all peripherals and host link

### ENCLOSURE

Steel chassis  
8.5" Wide x 7" High (4U) x 20" Deep  
43.5 lbs/19.7kg

### ENVIRONMENTAL

Ambient Temperature: 0° to 50° C  
Storage Temperature: -55° to 125° C  
Relative Humidity: 0% to 90% non-condensing

### REGULATORY COMPLIANCE

FCC Class A Verified  
RoHS Compliant  
CE Certified

### WARRANTY

30 day Money back guarantee  
1 Year return to factory (extendable)



9918 Via Pajar, San Diego, CA 92126  
Toll Free: 1.800.285.8990  
Telephone: 1.858.530.2511  
E-mail: sales@magma.com

Visit us online @ [www.magma.com](http://www.magma.com)



©2015 Magma. Magma and ROBEN are trademarks of Mission Technology Group, Inc. Thunderbolt and Thunderbolt logo are trademarks of Intel Corporation in the US and/or other countries. All trademarks are the property of the respective trademark owners. United States and foreign patents pending. Specifications are subject to change without notice.