ExpressBox 3600-P

Partitioned Four Host HPC Expansion Chassis

Flexible Expansion System Supporting up to (4) Independent Hosts and up to (8) GPUs

Magma's ExpressBox 3600-P provides partioned support for server grade GPUs and other HPC peripherals to existing host computer systems. Designed to support full Gen 3 x16 PCIe connectivity to all devices, the EB3600 supports 128 Gbps communication between the host and all peripherals. The EB3600-P supports eight total peripherals with four host links for support of one to four independent hosts.

The EB3600 is optimized for server class applications and supports a variety of server class GPUs. Power and cooling are designed for up to 300W per GPU. Cooling is designed to support passive cooled GPUs. All critical components are hot swappable and designed for RAS applications. The EB3600 includes Magma's Express I/O management for system control, monitoring and alarming.

OVERVIEW

- EB3600-P: Eight total peripherals; one to four hosts
- PCIe Gen 3 x16 (128Gbps) for all connections
- Optimized for server class (passively coded) GPUs
- Magma Express I/O System Management is included in all configurations

FEATURES

- Dedicated connectivity for up to four independent hosts
- Passive host interface; no PCIe switch on host link cards provides lowest latency possible
- Two 1200W/1500W hot swappable power supplies provided standard. Up to two more can be configured, for support of up to 4800W/6000W
- Direct flow through air cooling is provided for passively cooled server class GPUs

BENEFITS

- Design optimized for GPU applications - concentrate your HPC investment in a chassis that will support full GPU performance utilization
- Each partition supports better ratio of Peripheral:Host connection of 2:1
- 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

BASE MODELS

EB3600-P

- Two partioned backplanes composed of two segments per backplane with two peripheral slots per segment. Four total segments, eight total peripherals; Supports up to 8 GPUs
- Two 1200 W/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 PSU. Can be added to base models above. Up to four total (4800W@120V/ 6000W@240V)

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

BACKPLANE

EB3600-P: Partitioned backplane: Four segments with two peripheral slots (GPUs) per segment; Four host links (1 per segment)

ENCLOSURE

Steel Chassis
16.8" Wide x 7" High (4U) x 22.125" Deep
Removable/cleanable air filter
50lbs/2.7kg

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)

MAGMA™

9918 Via Pasar, 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