

ExpressBox 3600-AB

HPC PCIe Gen 3 Expansion Chassis with Dual Host Control



Robust HPC System supporting Independent Server Hosting

Magma's ExpressBox 3600-AB provides optimal server grade GPU and other HPC peripheral expansion to two independent hosts needing autonomous control of the PCIe devices in either side "A" or "B" of the EB3600-AB. The EB3600-AB supports 128 Gbps communication between the host and all peripherals. Ten total expansion slots are supported by the EB3600-AB with five for either host. Each segment "A" or "B" may be individually powered up or down for individual servicing of either host's resources.

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 passively 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-AB: Two autonomous segments "A" and "B" consisting of five peripheral slots each
- Supports up to nine double wide GPUs
- PCIe Gen 3 x16 (128Gbps) for all connections
- Optimized for server class (passively coded) GPUs
- Magma Express I/O System Management provides unified management of both segments A and B

FEATURES

- Passive host interface; no PCIe switch on host link cards provides lowest latency possible
- Two 1200W/1500W hot swappable power supplies provided standard. Each segment supports 2400W(@120V)/3000W(@240V) power
- 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
- Individual control of each HPC segment allowing autonomous control for independent host servicing
- Supports peer-to-peer transfers between cards in the expansion chassis to provide full bandwidth potential among I/O cards

BASE MODELS

EB3600-AB

- Two five slot backplanes mounted side by side in a 19" rack enclosure
- Four 1200 W/1500W PSUs; Two per segment

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 ordered as spares.

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-AB: ten peripheral slots and two host link slots (All Gen 3 x16)

ENCLOSURE

4U Rack-mount
16.8" Wide x 7" High (4U) x 22.125" Deep
Removable/cleanable air filter
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)



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