

ExpressBox 3600-10

HPC PCIe Gen 3 Expansion Chassis



Robust Server Optimized for up to (9) Double-Wide GPUs

Magma's ExpressBox 3600 provides optimal server grade GPU and other HPC peripheral expansion 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. Ten total expansion slots are supported by the EB3600-10 for one or two 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 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

- EB3600-10: Ten total or nine double wide peripherals; one to two 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

- 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
- 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

EB3600-10

- Two five slot backplanes mounted side by side in a 19" rack enclosure
- 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

EB3600-10: ten peripheral slots and
two host link slots (All Gen 3 x16)

ENCLOSURE

Steel Chassis

16.8" Wide x 7" High (4U) x 22.125" Deep
Removable/cleanable air filter
50 lbs/22.7kg

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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