



ExpressBox¹ & ExpressBox¹ Pro

ExpressCard to PCI Express[®] Adapter

PCI Express Outside the Box

Magma ExpressBox¹ is an easy-to-use device for attaching a “desktop-only” PCI Express[®] card to a laptop. This capability allows a user to combine the power of a desktop and the mobility of a laptop into a powerful, flexible, mobile workstation. For example, a user can turn a typical, middle-of-the-road laptop into a powerful gaming, scientific computer or audio and video editing workstation by simply adding the right PCI Express card to **ExpressBox¹** then connecting to a laptop.

Magma ExpressBox¹ offers support for full size PCI Express cards or shorter, with a power requirement of 55 watts or less. **ExpressBox¹** also provides temperature controlled cooling and dedicated power to ensure the PCI Express card runs at maximum efficiency. Each system can accommodate up to a x16 (16 lane) PCI Express card and connects to the computer laptop through the ExpressCard slot.

ExpressBox¹ (Model EB1H) is designed for half-length (6.604” or shorter) PCI Express cards and

weighs only 2.8 pounds. **ExpressBox¹ Pro** (Model EB1F) is designed for three-quarter and full-length PCI Express cards (12.283” or shorter) and weighs only 4.3 pounds.

Just about any type of PCI Express card can be used in **ExpressBox¹** ranging from audio processing, video capture, graphics, test and measurement, data-acquisition, SCSI, FibreChannel, SATA and more.



For use with:

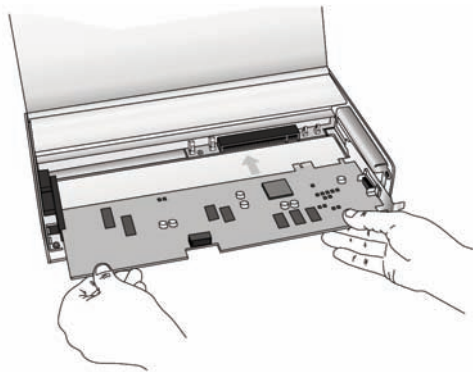


Features and Benefits:

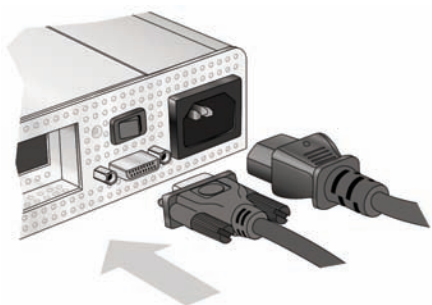
- Light-weight and easy method for attaching full-size or half-size PCI Express cards to a laptop
- No latency solution providing 2000mbps (250MB/sec) throughput
- Supports PCI Express cards that require up to 55 watts of continuous power
- Unique “flip open” lid provides quick access to PCI Express card installed inside enclosure
- Universal internal power supply eliminates need to carry external power brick
- Temperature controlled cooling keeps HOT card cool while keeping fan noise to a minimum
- 55 watts of dedicated power for PCI Express devices outside the computer
- Rubber feet protects the product from scratches when used on a tabletop
- A 1U, half-rack width rack-mount bracket for easy mounting in a standard rack for users who are serious about their mobile-offices
- Compatible with practically any PCI Express card
- Allows for easy upgrades to new PCI Express hardware
- Supported by Windows Vista, Windows XP and MacOS X
- OEM and Reseller programs available
- ROHS Compliant



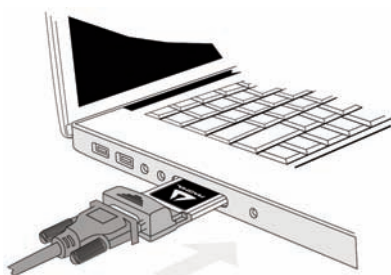
Inside of ExpressBox¹



Insert your favorite PCI Express Card



Connect Cables



Connect to Laptop

Specifications:

- Backplane: One PCI Express slot (x16 connector)
- PCI Express Specification: Revision 1.1
- Cable: 1 meter cable is standard
½ meter and 3 meter cable or optional
PCI Express External Cabling Specification: Revision 0.5
- Interconnect Bandwidth: 2000Mbps 250MB/sec (full x1 PCIe speed with no latency)

Enclosure

Half-length Enclosure

- Material: Silver Aluminum and Plastic
- Dimensions: 7.71" x 1.73" x 8.04"
- Weight: 2.8 lbs or 1.27 kg
- Max Card Length: 6.604"
- Cooling: Three 2.5CFM fans, temperature controlled



Full-length Enclosure

- Material: Silver Aluminum and Plastic
- Dimensions: 7.71" x 1.73" x 13.72"
- Weight: 4.3 lbs or 1.95 kg
- Max Card Length: 12.283"
- Cooling: Three 2.5CFM fans, temperature controlled



Host Connection and Power Consumption

- ExpressCard/34 module: 0.43W max, 3.3V @ 013A
- x1 PCI Express card (coming soon)

Rack Installation

- Includes rack-mount face plate
- 1U, half-rack width



Power Supply

- 60W Internal, auto-switching
- Input Voltage: 90 – 264 VAC
- Input Frequency: 47 – 63 Hz
- Inrush Current: less than 30A @ 115VAC
less than 60A @ 230VAC
- DC Output: 60W Max 12V/5.0A
Add-in PCI Express card should not exceed 55 watts

Environmental

- 0° to 50° C Operating Temperature, -20° to 60° C Storage Temperature, 5% to 85% Relative Humidity, Non-condensing

MTBF

- 25,000 hours

Regulatory Compliance

- FCC Class A Verified
- CE Certified
- TUV NTRL Tested

Supported Operating Systems

- Windows XP/Vista
- Mac OS X

How to Buy:

Model	Description
EB1H	Magma ExpressBox ¹ , 1 Slot PCI Express Box with ExpressCard, half-length
EB1F	Magma ExpressBox ¹ Pro, 1 Slot PCI Express Box with ExpressCard, full-length
SUBCBL0.5TDP	Substitution: ½ meter cable option
SUBCBL3TDP	Substitution: 3 meter cable option
EX34	Spare Magma ExpressCard/34 module
CBL1TDP	Spare 1 meter cable
CBL3TDP	Spare 3 meter cable
CBL0.5TDP	Spare 1.5 meter cable

Package Contents:

- Magma ExpressCard/34 module
- PCI Express cable
- Magma ExpressBox¹ enclosure
- Stand for vertical orientation
- Face-plate for rack installation
- Universal power cord (UPC)
- Quick Installation Guide

Compatibility:

ExpressBox¹ and ExpressBox¹ Pro are compatible with today's most popular PC laptops and the Apple MacBook Pro. For external graphics applications, Mobility recommends using laptops with ATI graphics technology paired with an ATI graphics card inside Magma ExpressBox¹.