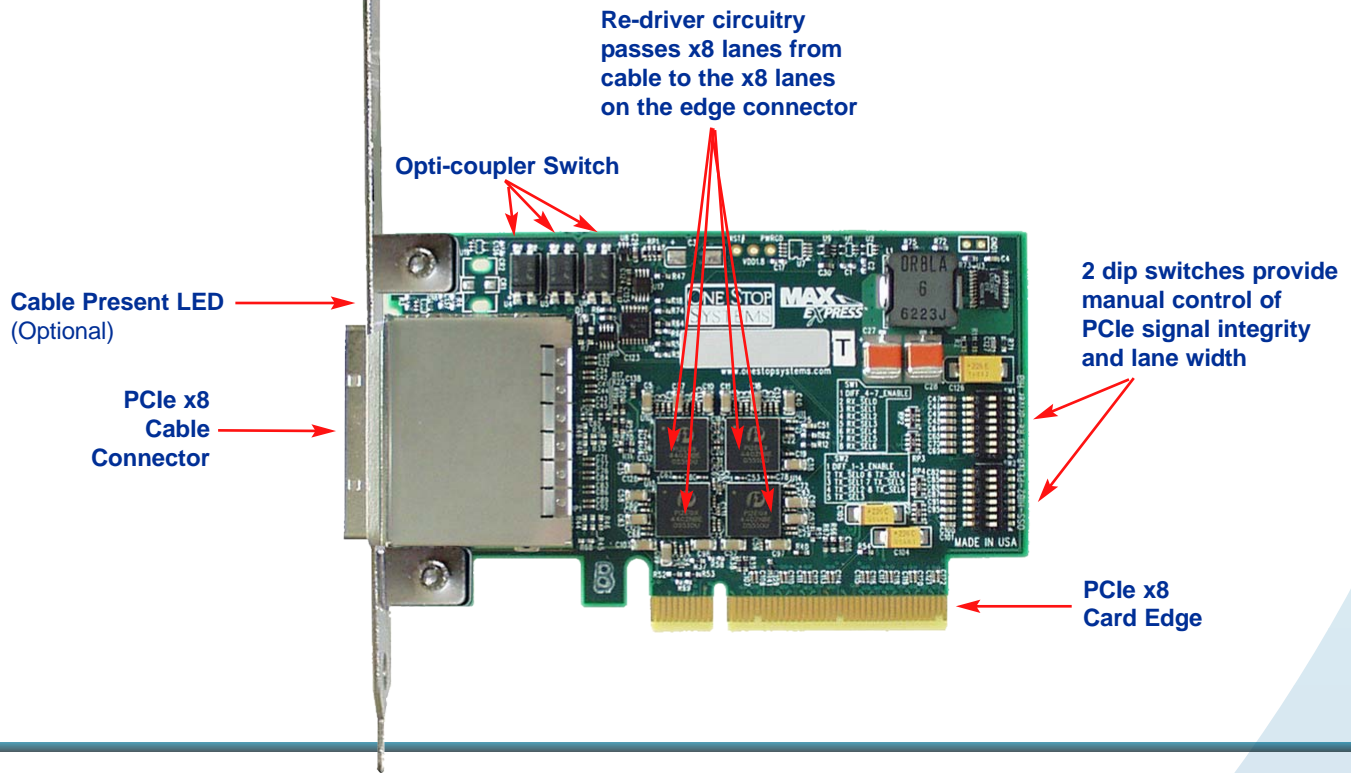


Target Host Interface Board (HIB2-T x8)

PRELIMINARY



The Target Host Interface Board expands a x8 PCI Express (PCIe) slot in a host PC to additional PCIe slots by extending the host bus over a high speed PCI-SIG specified data cable. This cable connects to a One Stop Systems' expansion chassis or rack mounted PCIe switch at speeds up to 20Gbps. The HIB2 installs in a x8 or x16 slot of a PCIe backplane or a PCIe motherboard. A PCIe x8 cable plugged into the connector on the faceplate extends the PCIe bus to an expansion board in the system slot of the backplane. The board also connects to an upstream port of an expansion chassis or to a 1U PCIe switch. Available in host mode and target mode (using target backplane and external PCIe card).

ELECTRICAL/MECHANICAL SPECIFICATIONS

Form Factor: PCI Express, available with low profile or standard height (shown) brackets

Dimensions (H x L): 2.7 x 4.3 in. (86 x 109mm)

Redriver: Pericom PI2EQX4402

External Interface: x8 PCI Express over cable

Front Panel Connector: Molex 75586-0007

Front Panel EMI Connector Shield: Molex 74540-0100

Front Panel Indicator: Optional Cable Present LED

KEY FEATURES

- 2.5Gbps serial PCI-Express repeater/equalizer per lane (20Gbps total)
- Programmable receiver equalization
- Programmable transmitter de-emphasis & amplitude
- Spread spectrum reference clock buffer outputs
- Low power (100mW per Channel)
- On-board VCC operating range: 1.8V±0.1V & 3.3V
- Electrical isolation at cable connector
- Host system BIOS independent
- No software drivers required
- Low cost 6-layer design
- Supports up to 7M PCIe x8 cables

POWER CONSUMPTION

3.75W maximum; 3.3V @ 1.75A

OPERATING ENVIRONMENT⁺

Temperature Range: 0° to 50°C (32° to 122°F)

Relative Humidity: 10 to 90% non-condensing

Shock: 30g acceleration peak (11ms pulse)

Vibration: 5-17Hz 0.5" double amplitude displacement; 7-2000Hz, 1.5g acceleration

+Designed to meet UL 60950, FCC Class B, CE safety and emissions

ORDERING OPTIONS

OSS-HIB2-x8: Host Interface Board

OSS-HIB2-x8-T: Target Host Interface Board

Cables

OSS-CABLE-PCIe-x8-2M: 2 meter cable

OSS-CABLE-PCIe-x8-3M: 3 meter cable

OSS-CABLE-PCIe-x8-5M: 5 meter cable

OSS-CABLE-PCIe-x8-7M: 7 meter cable

WARRANTY

Two years



Specifications are subject to change without notice.



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