



HDB8236
Backplane

HDEC SERIES SMALL FORMAT BACKPLANE

Host Four Separate Processor Boards In A 5U Chassis

Enhance System Design Flexibility

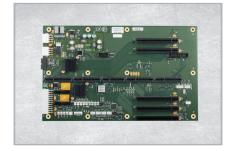
HDEC Series small format backplane supports one dual-processor HDEC Series SHB and up to five PCI Express option cards. Ideal for short-depth 5U chassis where you can fit two of these backplanes into the chassis. Also consider putting two of these backplanes into the THS4095 chassis which is a 4U, 26" depth chassis with a front mount power supply.

PRODUCT DETAILS



I/O CONNECTIONS

4-SATA 600, 2-USB3, 1-serial port, 1-PS/2 mouse, 1-PS/2 keyboard, and 4 fan headers with fan speed



PCI EXPRESS 3.0

80 Lanes of PCle 3.0 provided by the HDEC Series system host board



OPTION CARD SLOTS

The HDB8236 backplane four x16 & one x8 PCle 3.0 option card slots.



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TECH SPECS

HDB8236 BACKPLANE

Model Number

HDB8236

Form Factor

HDEC Series small form factor backplane supports one dual-processor HDEC Series SHB and up five PCI Express option cards. All card slots are designed for the Gen3 PCIe electrical interface and are equipped with x16 PCIe mechanical connectors. Four of the card slots are driven with Gen3 PCI Express x16 electrical interfaces and the remaining slot supports a x8 PCIe electrical interface.

Mechanical

The nominal backplane thickness is 0.080"; however, the backplane mounting holes are recessed 0.018" on the bottom to provide an effective PCB thickness of 0.062" for use in the chassis design process.

Size

7.9"(201mm) x 12.9"(328mm) - small format

Configuration

Four x16 PCI Express and one x8 PCIe (all x16 mechanical) slots, and all card slots are PCIe Gen3 capable.

- Note 1: All backplane slots are driven with native PCle 3.0 links direct from the two processors on a compatible, dual-processor HDEC Series system host board such as Trenton's HEP8225.
- Note 2: Backplane slots PCle1, PCle2, PCle3 and PCle5 are each driven with a dedicated x16 PCle Gen3 link from one of the SHB's processors.
- Note 3: Backplane slot PCIe4 is driven with a dedicated x8 PCIe Gen3 link from one of the SHB's processors.
- Note 4: The PCle1, PCle3, and PCle5 x16 PCle interface card slots are optimum slot locations for accommodating double-wide PCle plug-in cards such as the Telsa class of GPUs from NVIDIA.

Card Slots

4 - x16 PCI Express 3.0/2.0/1.1 electrical / x16 mech. connectors (card slots PCle1, 2, 3, and 5)

1 - x8 PCI Express 3.0/2.0/1.1 electrical / x16 mech. connector (card slots PCle4)

Connectors

Available within Trenton HDEC Series system host board

- 4 -SATA/600 system headers
- 1 System fan header
- 1 Clear CMOS header
- 1 Alarm status headers for the FAN signals (backplane segment 2 location)

- 2 USB3 interface system header connections
- 4 ACPI control header (PSON, PWRBTN, RESET, PWRGD)
- 1 I2C header allows access to all four segments

Agency Approvals & Compliance

Designed for UL60950 and CAN/CSA C22.2 No.60950-00, EN55022:1998 Class B, EN61000-4-2:1995, EN61000-4-3:1997, EN61000-4-4:1995, EN61000-4-5:1995, EN61000-4-11:1994

Power Connectors

- ATX/EPS power source one right-angle or vertical 24-position ATX/EPS connector
- +12V AUX power source two right-angle or vertical 8-position connectors
- Terminal block one four-position terminal block for extended current applications

Indicators

- 2 Eight segment LEDs for SHB POST code status
- 4 System fan present LEDs
- 1 System Host Board present LED
- 2 Power regulator status LEDs for the 1V and 1.8V levels
- 4 Incoming system power status LEDs for the 3.3V, 5V, 12V and 5V AUX supply levels
- +5V, +5V AUX, +12V, and +3.3V system power connection and status
- +1V, and +1.8V power regulator level and status

Operating Temperature

 0°C to 50°C with standard cooling solution and 350LFM of continuous airflow

Environmental

Airflow: 350LFM continuous airflow Storage Temp: -40° to 70°C

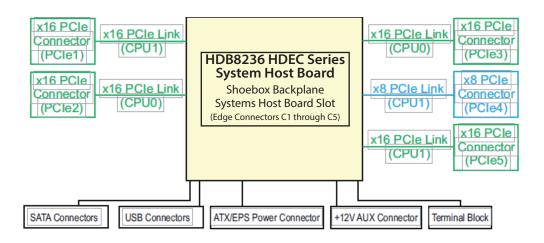
Humidity: 5% to 90% non-condensing

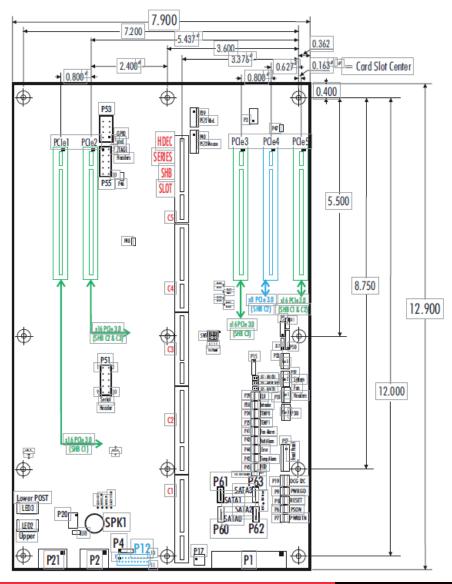
Trenton's HDB8236 is a lead-free, RoHS-compliant backplane.



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