

## 2U 19" Rackmount ePCI-X Chassis

**ePC-2194**



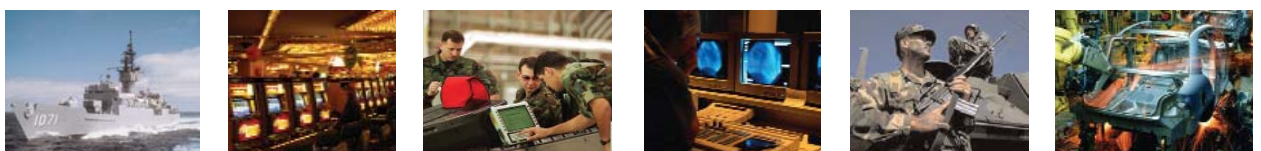
- 3.48" H x 16.93" W x 19.78" D Chassis
- 6-slot ePCI-X Passive Backplane with 2 Independent PCI Buses
- Slim CD-ROM & FDD and Two Internal 3.5" Hard Drive Bays Behind Lockable Door
- Two Filtered 8cm and One 4cm Ball-bearing Fans
- Protected Power On/Off and Reset Switches, Front Accessible USB Ports
- Four LEDs for Power On/Off, HD Activity and Ethernet Status
- Single 400W or Redundant 350W ATX PFC Power Supplies
- Supports DTI Full-Length ePX-L520 SBC
- PICMG® ePCI-X Compliant Butterfly Backplane with Two Independent PCI-X Buses

*Diversified Technology's ePC-2194 low profile chassis is designed for use with high performance ePCI-X SBCs and high I/O bandwidth PCI/PCI-X bus add-in cards. Built upon the PICMG 1.2 embedded PCI-X open standard, and part of DTI's ePIX Generation family of single board computers, backplanes and chassis, it provides exceptional capacity and expandability in a rack-efficient 2U package ideal for embedded computing applications.*

The ePC-2194 slim, compact chassis features a 6-slot butterfly backplane with one Single Board Computer, sometimes referred to as a system host board (SHB), slot and five available PCI slots for high performance I/O cards. PCI Bus A supports up to 64-bit/100MHz +3.3V PCI-X add-in cards; bus B supports three 64-bit +5V or 32-bit/33MHz +5V add-in cards. For security, slim CD-ROM and floppy drive bays and two 3.5" hard drive bays are provided behind the front lockable door as are the power on/off and reset switches. Two USB ports and power on/off, hard drive activity and two Ethernet activity LED indicators complete the front panel.

Constructed of heavy-duty steel, the ePC-2194 chassis has a removable card cage for ease of configuration, installation, and maintenance of the SBC and add-in cards. Two front 8cm fans, with replaceable filter, a 4cm rear fan and unique channeled air movement provide excellent cooling for today's high performance CPUs and expansion cards. Power is provided by either a single 400W or redundant 350W AC ATX power factor corrected universal power supplies. A two year limited warranty is included.

Rackable and stackable with a small footprint and compatible with Diversified Technology's ePX full-length ePX-L520 SBC, the ePC-2194 industrial chassis is the space-saving choice for OEMs addressing medical/laboratory/imaging, industrial control and automation, data acquisition, COTS military/aerospace, communication, and Internet/intranet infrastructure markets.

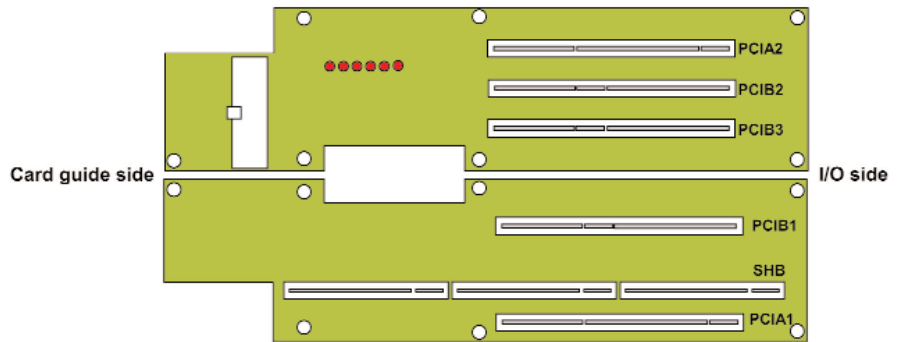
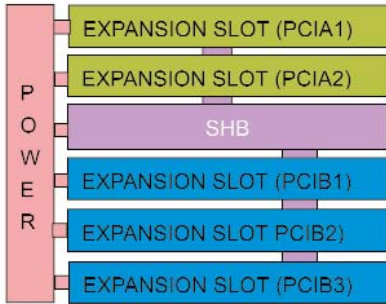


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**System Backplane Diagram**



**SPECIFICATIONS**

**Dimensions**

- 3.48" H x 16.93" W x 19.78" D (88.4mm x 430mm x 502.4mm) behind front panel
- 20.74" D overall (526.8mm)

**Weight**

- 28.8lbs with ePX-L520, one hard drive, and a CD-ROM

**Construction/Finish**

- Heavy duty steel; Black cover
- Removable mounting brackets

**Backplane (ePB-B6/564)**

- 6 full-length slots total
- 1 CPU slot
- Bus A w/ (2) 64-bit up to 100MHz +3.3V PCI-X slots
- Bus B w/ (3) 64-bit +5V PCI-X or 32-bit/33MHz +5V PCI slots
- Conforms to PCI 2.2, PCI 2.2 PCI-X Addendum, and PICMG 1.2 ePCI-X spec.

*NOTE: When using ePX-L520 SBC, one of each of Bus A & Bus B slots restricted to 1/2-length*

**Peripherals**

- External: Slim CD-ROM & FDD bays
- Internal: Two 3.5" x 1" drive bay

**Controls/Indicators**

- Front power on/off behind lockable door
- Front reset switch behind lockable door
- System power on LED
- HD activity LED
- Two Ethernet link/activity LEDs

**I/O**

- Two front panel USB ports
- One serial and one parallel ports on rear panel
- Two USB, one serial and PS/2 KBD/MSE on rear panel via I/O expansion card
- Rear panel AC power inlet

**Thermal Management**

- Two 8cm (39.5cfm) ball-bearing fans in front, one 4cm (9.1 cfm) in rear
- Air channel to CPU
- Replaceable air filter behind front door

**Power Supply**

**Single**

- Max output: 400W PFC  
+5V/33A, +12V/25A, +3.3V/28A, -5V/0.8A, -12V/1.0A, +5VSB/2A
- Input Voltage: 100-240VAC
- Input Frequency: 47Hz - 63Hz
- Input Current: 7A max/115V, 3.5A max/230V
- Efficiency: 70% min.
- MTBF: >87,000 at 75% max. output at 25°C (70°F) ambient temperature

**Redundant**

- Max output: 2x 350W  
+5V/35A, +12V/22A, +3.3V/20A, -5V/0.5A, -12V/0.5A, +5VSB/2A
- Input Voltage: 95-264VAC
- Input Frequency: 47Hz - 63Hz
- Input Current: 7A max/115V, 3.5A max/230V
- Efficiency: 63% min.
- MTBF: >75,000 at 75% max. output at 25°C (70°F) ambient temperature

**Environmental**

**Operating**

- Temperature: 0° to 40°C / 32° to 104°F
- Humidity (RNC): 5 to 95% @ 40°C / 104°F
- Altitude: 1800m / 6,000ft
- Shock: IEC 68-2-27, 29: 1998
- Vibration: 1G continuous @ 5-100Hz
- Acoustic Noise: <48dB at 1mm in front at full load

**Storage and Transit**

- Temperature: -40° to +70°C / -38° to 158°F
- Humidity (RNC): 5 to 95% @ 40°C / 104°F

**Environmental (cont'd)**

- Altitude: 15,240m / 50,000ft
- Shock: 30G, 9ms duration (in approved packaging)
- Vibration: 3G continuous (in approved packaging)

**Regulatory Compliance (pending)**

**Safety**

- UL/cUL60950, CSA C22.2 No. 950, EMC
- FCC 47 CFR Part 15 Class A;
- ESD**
- EN55024

**Ordering Information**

**ePC-2194/B6564-400**

2U chassis and backplane with 400W power supply. Slim CD-ROM and Slim Floppy Disk Drive.

**ePC-2194/B6564-R350**

2U chassis and backplane with redundant 350W power supply. Slim CD-ROM and Slim Floppy Disk Drive.

**Options**

3.5" x 1" HD

See also ePX-L520 SBC



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