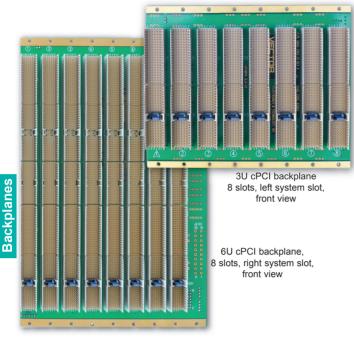
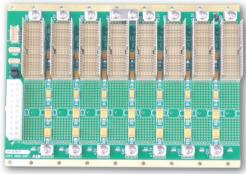


Vectorbord® Backplanes cPCI®





3U cPCI backplane 8 slots, right system slot, rear view



Power Bug (2.5 amps/pin)



Backplane Mounting Hardware Each Set includes:

M2.5 X 12MM Screw #3 Lockwasher

M2.5 (DIN#125) Flat Washer HD56-1 42 sets

HD56 12 sets

cPCI® Backplanes, 3U and 6U

The specification for PCI based industrial computers is called CompactPCI. It is electrically a superset of desktop PCI with IEEE 1101.10 mechanical form factor. Vector offers RoHS compliant 3U and 6U cPCI backplanes sold separately or integrated into any VectorPak[™] subrack or chassis. Designed to meet PICMG 2.0 Rev 3, Hot-swap PICMG 2.1 Rev 1 and available in 2 to 8 slots.

Features:

• Slot Count: 2-8 slot options

· Size: 3U or 6U

- Version with left or right system slot, right slot version with ATX connector
- 33MHz (2-8 slots), 66MHz (2-5 slots)
- Easily changeable +3.3V (cadmium yellow) or +5V (brilliant blue) V I/O with movable bus bar
- · IPMB, JTAG and P1 utility conectors
- 10-layer FR-4 construction, UL94V-0, RoHS compliant
- Exellent power distribution, best signal integrity, virtually zero cross talk, and minimum clock skew
- · EMI shielding
- Controlled impedance
- Screw terminal (power bug) or Faston input power connections
- 4.05mm thick PCB eliminates need for backplane stiffner rail
- Compatible with IEEE 1101.10 subracks and accessories, pages 26-33
- Conformal coating available on request
- Custom configurations available, please contact factory
- · Fully assembled and tested

Connectors:

The CompactPCI connectors are shielded 2mm pitch, 5+2 row connector, compliant to IEC 61076-4-101. Main features of this connectors are the pin staging for hot swap and shielding for EMI/RFI protection.

cPCI connector pin assignments see pages 82-85.



V I/O busbar



33 or 66 MHz jumper 2-5 slots backplanes



Backplanes

Vectorbord® Backplanes cPCI®



cPCI® Backplanes, 3U and 6U

Technical Data:

PCB design: FR-4 epoxy glass, 10 layer SMT/ press-fit assembly

Assembly: Impedance of bare PCB: 65 ohm +/- 10%

Resistance of signal lines: < 1.5 ohm

Current loading: +5V up to 8A per slot

+3.3V up to 10A per slot

Clock frequency: 33MHz (2-8 slots)

66MHz (2-5 slots)

PCI bus width: 32 bit (3U), 64 bit (6U)

V I/O : +5V blue key,

+3.3V yellow key, field changeable

Operating temperature: -40°C to +85°C

95% non condensing **Humidity:**

Flammability: UL 94V-0

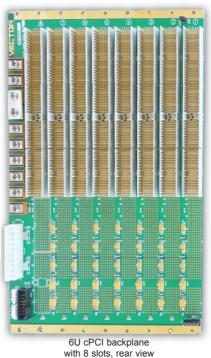


7 = 7-slot





Utility Connector, P1



3U cPCI backplane with 2 slots, front & rear view

CompactPCI utility connectors pin assignments

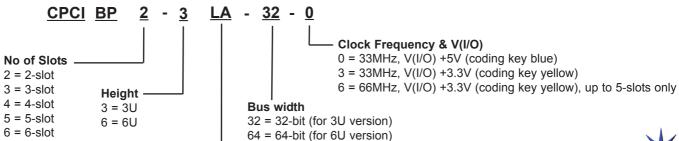
PIN#	10-PIN UTILITY	IPMB	JTAG
	CONNECTOR (P1)	CONNECTOR	CONNECTOR
1	PRST#	IPMB_SCL	GND
2	FAL#	GND	TCK
3	DEG#	IPMB_SDA	TMS
4	+3.3V SENSE	IPMB_PWR	TRST#
5	+3.3V	SMB_RSV	TDI
6	GND SENSE (3.3V)	GND	TDO
7	+5V		
8	+5V SENSE		
9	GND		
10	GND SESNSE (5V)		

CompactPCI ATX connector pin assignments

PIN#	ATX CONNECTOR	PIN#	ATX CONNECTOR
1	+3.3V	11	+3.3V
2	+3.3V	12	-12V
3	GND	13	GND
4	+5V	14	PS_ON OR INH# (NOTE 2)
5	GND	15	GND
6	+5V	16	GND
7	GND	17	GND
8	PW_OK OR FAL# (NOTE 1)	18	-5V
9	+5V SB	19	+5V
10	+12V	20	+5V

NOTE 1: Via jumper J1 to DEG# NOTE 2: Via jumper J2 to GND

cPCI Backplane **Ordering Information**



System slot 8 = 8-slot LA = Left system slot RB = Right system slot