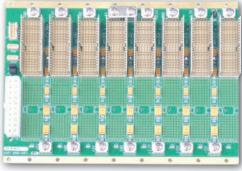


Vectorbord® Backplanes cPCI®



3U cPCI backplane 8 slots, left system slot, front view

6U cPCI backplane, 8 slots, right system slot, front view



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

HD56-1 42 sets HD56 12 sets

www.vectorelect.com

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

COM Specification subject to change without notice

ice 800-423-5659



Backplanes

20



Vectorbord® Backplanes cPCI®



Technical Data:

Clock frequency:

PCB design: FR-4 epoxy glass, 10 layer

Assembly: SMT/ press-fit 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 33MHz (2-8 slots)

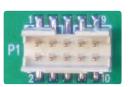
66MHz (2-5 slots)

PCI bus width: V I/O:32 bit (3U), 64 bit (6U)
+5V blue key,

+3.3V yellow key, field changeable

Operating temperature: -40°C to +85°C Humidity: 95% non condensing

Flammability: UL 94V-0



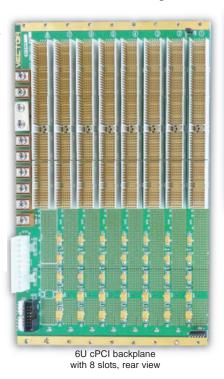


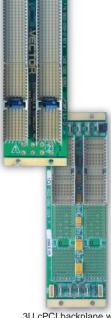


IPMB Connector

JTAG Connector

cPCI® Backplanes, 3U and 6U





Backplanes

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

CompactPCI utility connectors pin assignments

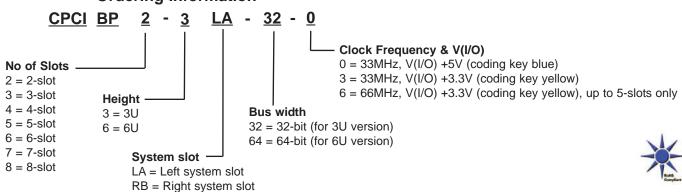
PIN#	10-PIN UTILITY	IPMB	JTAG
FIIN #	CONNECTOR (P1)	CONNECTOR	CONNECTOR
1	PRST#	IPMB_SCL	GND
2	FAL#	GND	TCK
3	DEG#	IPMB_SDA	TMS
4	+3.3V SENSE	IPMB_PWR	TRST#
5	+3.3V	SMB_RSV	TDI
6	GND SENSE (3.3V)	GND TDO	
7	+5V		
8	+5V SENSE		
9	GND		
10	GND SESNSE (5V)		

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



www.vectorelect.com

800-423-5659





Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Vector:

1100136-15A UM21A3U-00 CPCIBP4-3RB-32-0