



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

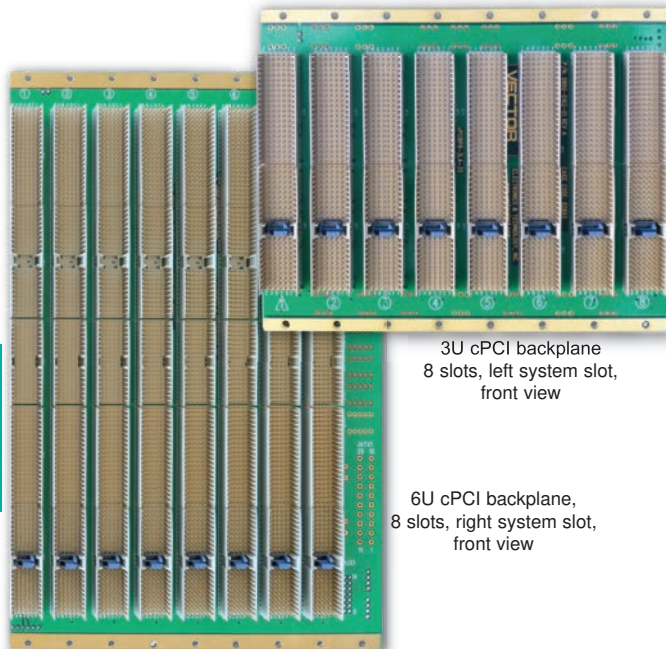
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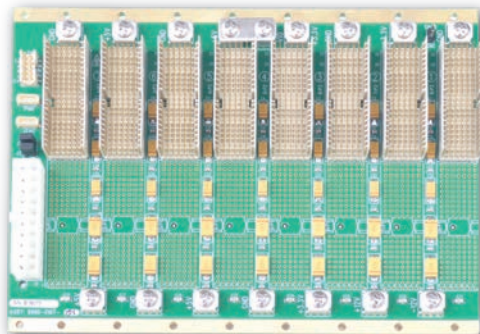


Backplanes



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

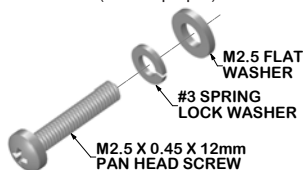
6U cPCI backplane,
8 slots, right system slot,
front view



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 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.

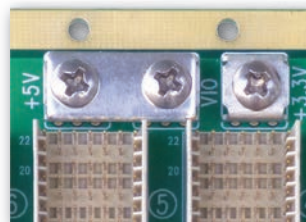
Features :

- 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 connectors
- 10-layer FR-4 construction, UL94V-0, RoHS compliant
- Excellent 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

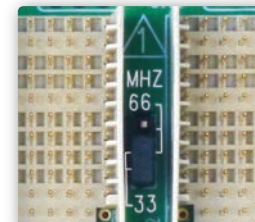
Connectors:

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





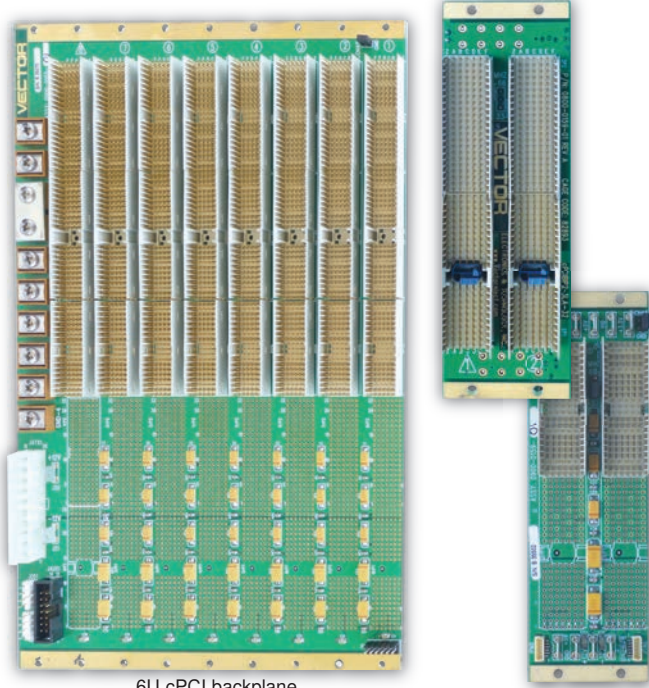
Vectorbord® Backplanes cPCI®



cPCI® Backplanes, 3U and 6U

Technical Data :

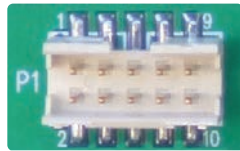
PCB design : FR-4 epoxy glass, 10 layer
Assembly : SMT/ press-fit assembly
Impedance of bare PCB : 65 ohm +/- 10%
Resistance of signal lines: < 1.5 ohm
Current loading : +5V up to 8A per slot
 +3.3V up to 10A per slot
Clock frequency : 33MHz (2-8 slots)
 66MHz (2-5 slots)
PCI bus width : 32 bit (3U), 64 bit (6U)
V I/O : +5V blue key,
 +3.3V yellow key,
 field changeable
Operating temperature : -40°C to +85°C
Humidity : 95% non condensing
Flammability : UL 94V-0



Backplanes

6U cPCI backplane with 8 slots, rear view

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



Utility Connector, P1



IPMB Connector



JTAG Connector

CompactPCI utility connectors pin assignments

PIN #	10-PIN UTILITY CONNECTOR (P1)	IPMB CONNECTOR	JTAG 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 SENSE (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

