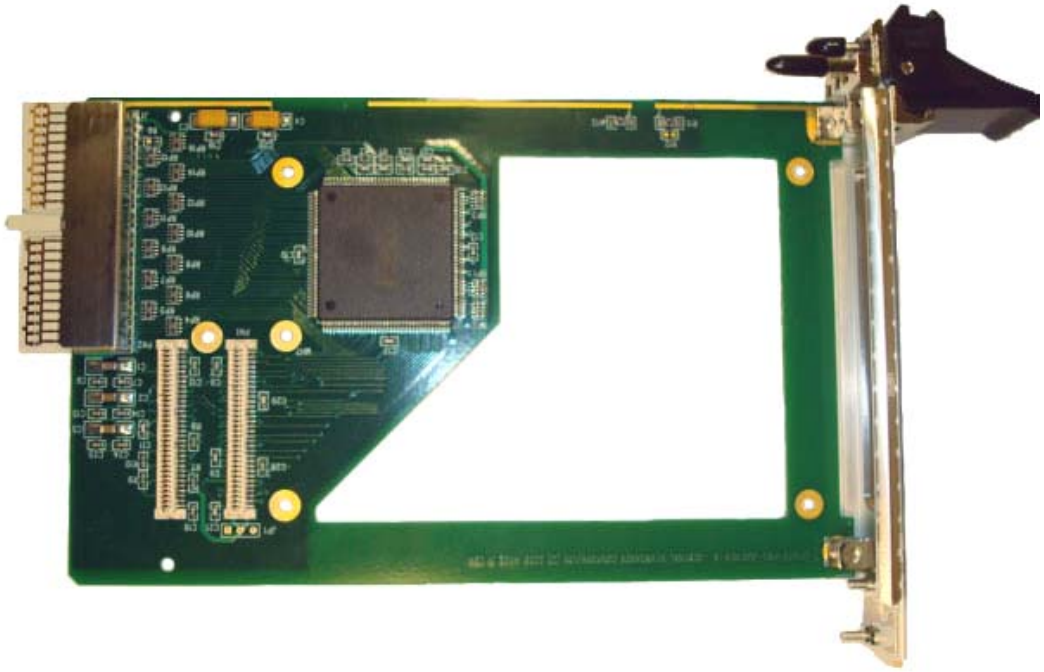
General Standards Corporation

High Performance Bus Interface Solutions

CPCI3U-TO-PMC-ADAPTER

cPCI-To-PMC Adapter
3U / 33MHz / 32 Bit



Features

- PMC carrier board for CompactPCI chassis
- 3U cPCI Form Factor
- 33MHz, 32-bit PCI Bus Interface
- I/O through PMC Front Panel Only
- Supports PCI bus mastering
- Open design allows increased cooling to PMC board.
- Industry Standard Intel 21152 PCI-to-PCI bridge
- Supports 5V or 3.3V cPCI Signaling
- Supports 5V* PMC Signaling

* Since all GSC PMC cards support 5V PMC signaling, the PMC interface is hardwired for 5V. If 3.3V PMC signaling is required, a user configurable jumper can be installed. Consult factory for 3.3V PMC Signaling jumper option.

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Form Factor:
3U cPCI

cPCI Compatibility:
PICMG 2.0 R3.0

PMC Compatibility:
IEEE 1386-2001

PCI Compatibility:
PCI Specification 2.3
33MHz / 32 Bit

Power:
0.4A @ VDD=3.3V (excluding power used by PMC board)
.

Physical Dimensions: (excluding cPCI bracket**)**

Height:	12mm
Width:	100mm
Depth:	160mm
Weight:	0.1kg

Environmental Specifications:

Ambient Operating Temp:	-40 to +85 degrees Celsius
Ambient Storage Temp:	-40 to +85 degrees Celsius
Relative Operating Humidity:	0 to 80%, non-condensing
Relative Storage Humidity	0 to 95%, non-condensing
Altitude:	Operation to 10,000 ft.
Cooling:	Conventional convection cooling

Ordering Information:

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cPCI (J1) Connector Signal Assignments

Pin # --	Signal Row A	Signal Row B	Signal Row C	Signal Row D	Signal Row E	Signal Row F
25	5V	<NC>	<NC>	3.3V	5V	GND
24	AD[1]	5V	V(I/O)	AD[0]	<NC>	GND
23	3.3V	AD[4]	AD[3]	5V	AD[2]	GND
22	AD[7]	GND	3.3V	AD[6]	AD[5]	GND
21	3.3V	AD[9]	AD[8]	GND	C/BE[0]#	GND
20	AD[12]	GND	V(I/O)	AD[11]	AD[10]	GND
19	3.3V	AD[15]	AD[14]	GND	AD[13]	GND
18	SERR#	GND	3.3V	PAR	C/BE[1]#	GND
17	3.3V	<NC>	<NC>	GND	PERR#	GND
16	DEVSEL#	GND	V(I/O)	STOP#	LOCK#	GND
15	3.3V	FRAME#	IRDY#	<NC>	TRDY#	GND
14	*KEY*	*KEY*	*KEY*	*KEY*	*KEY*	GND
13	*KEY*	*KEY*	*KEY*	*KEY*	*KEY*	GND
12	*KEY*	*KEY*	*KEY*	*KEY*	*KEY*	GND
11	AD[18]	AD[17]	AD[16]	GND	C/BE[2]#	GND
10	AD[21]	GND	3.3V	AD[20]	AD[19]	GND
9	C/BE[3]#	IDSEL	AD[23]	GND	AD[22]	GND
8	AD[26]	GND	V(I/O)	AD[25]	AD[24]	GND
7	AD[30]	AD[29]	AD[28]	GND	AD[27]	GND
6	REQ#	GND	3.3V	CLK	AD[31]	GND
5	<NC>	<NC>	RST#	GND	GNT#	GND
4	<NC>	GND	V(I/O)	<NC>	<NC>	GND
3	INTA#	INTB#	INTC#	5V	INTD#	GND
2	TCK	5V	TMS	TDO	TDI	GND
1	5V	-12V	TRST#	+12V	5V	GND

(PCB Rev B Pinout)

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PMC (P1/P2) Connector Signal Assignments

P1				P2			
Pin #	**Signal**	**Signal**	**Pin #**	**Pin #**	**Signal**	**Signal**	**Pin #**
1	TCK	-12V	**2**	**1**	+12V	TRST#	**2**
3	GND	INTA#	**4**	**3**	TMS	TDO	**4**
5	INTB#	INTC#	**6**	**5**	TDI	GND	**6**
7	<NC>	5V	**8**	**7**	GND	<NC>	**8**
9	INTD#	<NC>	**10**	**9**	<NC>	<NC>	**10**
11	GND	3.3V	**12**	**11**	PUP	3.3V	**12**
13	CLK	GND	**14**	**13**	RST#	PDN	**14**
15	GND	GNT#	**16**	**15**	3.3V	PDN	**16**
17	REQ#	5V	**18**	**17**	<NC>	GND	**18**
19	V(I/O)	AD[31]	**20**	**19**	AD[30]	AD[29]	**20**
21	AD[28]	AD[27]	**22**	**21**	GND	AD[26]	**22**
23	AD[25]	GND	**24**	**23**	AD[24]	3.3V	**24**
25	GND	C/BE[3]#	**26**	**25**	IDSEL	AD[23]	**26**
27	AD[22]	AD[21]	**28**	**27**	3.3V	AD[20]	**28**
29	AD[19]	5V	**30**	**29**	AD[18]	GND	**30**
31	V(I/O)	AD[17]	**32**	**31**	AD[16]	C/BE[2]#	**32**
33	FRAME#	GND	**34**	**33**	GND	<NC>	**34**
35	GND	IRDY#	**36**	**35**	TRDY#	3.3V	**36**
37	DEVSEL#	5V	**38**	**37**	GND	STOP#	**38**
39	GND	LOCK#	**40**	**39**	PERR#	GND	**40**
41	<NC>	<NC>	**42**	**41**	3.3V	SERR#	**42**
43	PAR#	GND	**44**	**43**	C/BE[1]#	GND	**44**
45	V(I/O)	AD[15]	**46**	**45**	AD[14]	AD[13]	**46**
47	AD[12]	AD[11]	**48**	**47**	GND	AD[10]	**48**
49	AD[9]	5V	**50**	**49**	AD[8]	3.3V	**50**
51	GND	C/BE[0]#	**52**	**51**	AD[7]	<NC>	**52**
53	AD[6]	AD[5]	**54**	**53**	3.3V	<NC>	**54**
55	AD[4]	GND	**56**	**55**	<NC>	GND	**56**
57	V(I/O)	AD[3]	**58**	**57**	<NC>	<NC>	**58**
59	AD[2]	AD[1]	**60**	**59**	GND	<NC>	**60**
61	AD[0]	5V	**62**	**61**	PUP	3.3V	**62**
63	GND	PUP	**64**	**63**	GND	<NC>	**64**

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