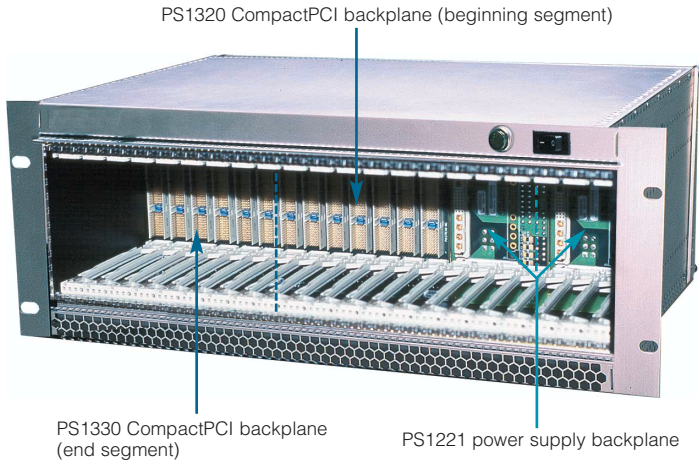


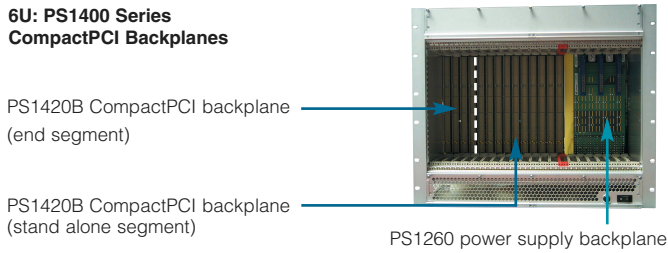
Modular Series Combination Tables

3U: PS1300 Series CompactPCI Backplanes

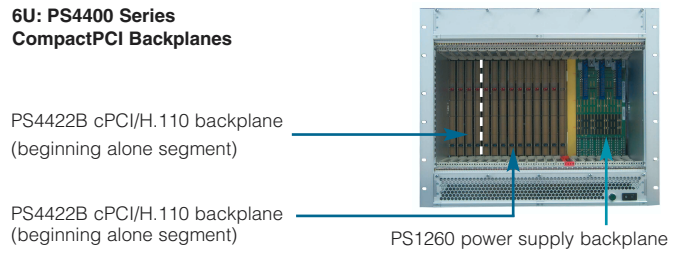


Slots required	Configuration	Backplanes required Model No.	Bridges required
2	2 slot backplane	PS1361	None
3	3 slot backplane	PS1360	None
4	4 slot backplane	PS1350	None
5	5 slot backplane	PS1340	None
6	6 slot backplane	PS1330	None
7	7 slot backplane	PS1320	None
8	8 slot backplane	PS1300	None
9	6+3 slots	PS1330+PS1360	1
10	7+3 or 6+4 slots	PS1320+PS1360 or PS1330+PS1350	1
11	7+4 or 6+5 slots	PS1320+PS1350 or PS1330+PS1340	1
12	6+6 or 7+5 slots	2X PS1330 or PS1320+PS1340	1
13	7+6 slots	PS1320+PS1330	1
14	7+7 slots	2X PS1320	1
15	6+6+3 slots	2X PS1330 + PS1360	2
16	6+6+4 slots	2X PS1330 + PS1350	2
17	6+6+5 slots	2X PS1330 + PS1340	2
18	6+6+6 slots	3X PS1330	2
19	7+6+6 slots	PS1320 + 2X PS1330	2
20	7+6+7 slots	2X PS1320 + PS1330	2
21	6+6+6+3 slots	3X PS1330 + PS1360	3
22	6+6+6+4 slots	3X PS1330+ PS1350	3
23	6+6+6+5 slots	3X PS1330+ PS1340	3
24	6+6+6+6 slots	4X PS1430	3
25	7+6+6+6 slots	3X PS1430+ PS1420	3

6U: PS1400 Series CompactPCI Backplanes



6U: PS4400 Series CompactPCI Backplanes

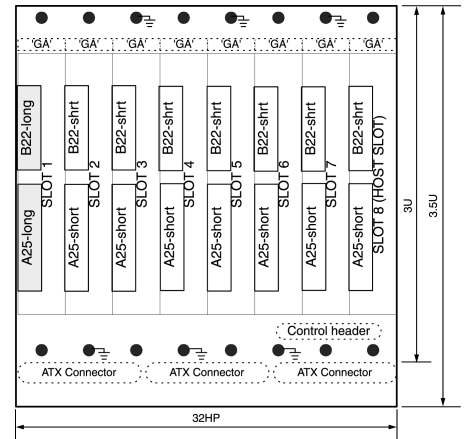
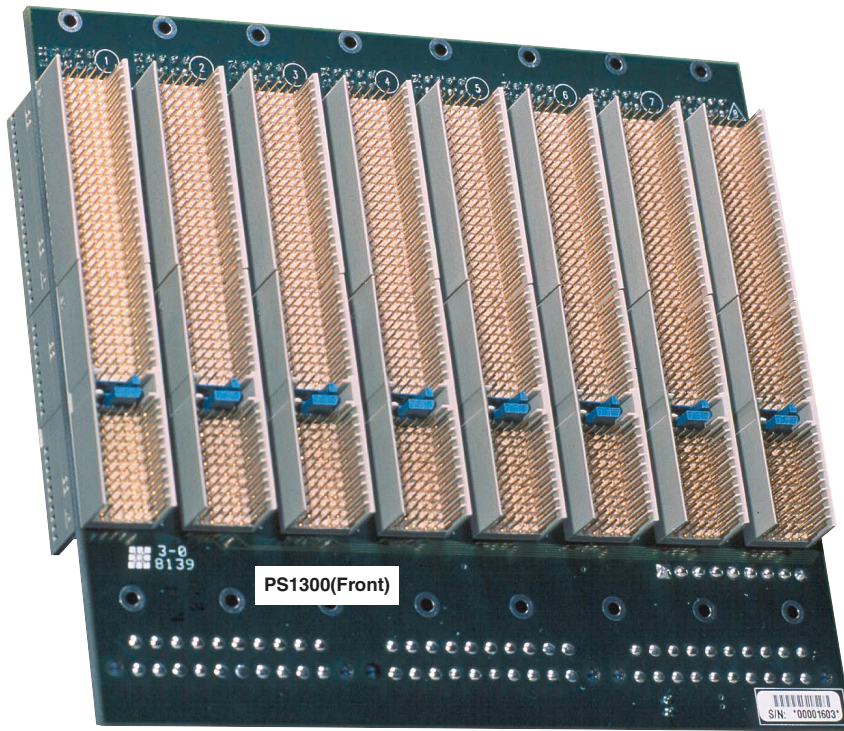


Slots required	Configuration	Backplanes required Model No.	Bridges required
2	2 slot backplane	PS1461	None
3	3 slot backplane	PS1460	None
4	4 slot backplane	PS1450	None
5	5 slot backplane	PS1440	None
6	6 slot backplane	PS1430	None
7	7 slot backplane	PS1420	None
8	8 slot backplane	PS1400 (right host slot) or PS1405 & PS1406 for left	None
9	6+3 slots	PS1430+PS1460	1
10	7+3 or 6+4 slots	PS1420+PS1460 or PS1430+PS1450	1
11	7+4 or 6+5 slots	PS1420+PS1450 or PS1430+PS1440	1
12	6+6 or 7+5 slots	2X PS1430 or PS1420+PS1440	1
13	7+6 slots	PS1420+PS1430	1
14	7+7 slots	2X PS1420	1
15	6+6+3 slots	2X PS1430 + PS1460	2
16	6+6+4 slots	2X PS1430 + PS1450	2
17	6+6+5 slots	2X PS1430 + PS1440	2
18	6+6+6 slots	3X PS1430	2
19	7+6+6 slots	PS1420 + 2X PS1430	2
20	7+6+7 slots	2X PS1420 + PS1430	2
21	6+6+6+3 slots	3X PS1430 + PS1460	3
22	6+6+6+4 slots	3X PS1430+ PS1450	3
23	6+6+6+5 slots	3X PS1430+ PS1440	3
24	6+6+6+6 slots	4X PS1430	3
25	7+6+6+6 slots	3X PS1430+ PS1420	3

Slots required	Configuration	Backplanes required Model No.	Bridges required
3	3-slot backplane	PS4460B	None
4	4-slot backplane	PS4450B	None
5	5-slot backplane	PS4440B	None
6	6-slot backplane	PS4430B	None
7	7-slot backplane	PS4420B	None
8	8-slot backplane	PS4400B (right host slot) or PS4407B for left	None
9	6+3 slots	PS4432B + PS4460B	1
10	7+3 or 6+4 slots	PS4432B + PS4460B or PS4430B + PS4450B	1
11	7+4 or 6+5 slots	PS4432B + PS4450B or PS4430B + PS4440B	1
12	6+6 or 7+5 slots	2X PS4432B + PS4420B + PS4440B	1
13	7+6 slots	PS4432B + PS4430B	1
14	7+7 slots	2X PS4420B	1
15	6+6+3 slots	2X PS4432B + PS4460B	2
16	6+6+4 slots	2X PS4432B + PS4450B	2
17	6+6+5 slots	2X PS4432B + PS4440B	2
18	6+6+6 slots	3X PS4432B	2
19	7+6+6 slots	PS4432B + 2X PS4430B	2
20	7+6+7 slots	2X PS4432B + PS4430B	2
21	6+6+6+3 slots	3X PS4432B + PS4460B	3

Ordering CompactPCI Backplanes

PS1300 Modular Series For 3U CompactPCI Boards Power Inputs



PS1300: 8 slot, 3.5U, 64-bit
 **Width throughout modular series is 4HP per slot (see configuration chart).

General Description:

The PS1300 series of 3.5U 64/32-bit backplane components allows the construction of CompactPCI systems with any number of slots. Each backplane in the family contains between 2 and 8 slots, and can operate in stand-alone mode with a host CPU board and power supply. Multiple backplanes can be linked together using rear-mounting CompactPCI bridge modules (PS1130). In this case, only the rightmost backplane operates with a host CPU board in the system slot. A bridge module drives the bus of the adjacent backplane, which does not contain a host CPU module.

Features:

- Any slot count is achieved by connecting backplanes with bridge modules (PS1130)
- 2 to 8, 3U single wide (4HP) CompactPCI slots
- +5 V, 33 MHz PCI bus interface
- 32-bit or 64-bit buses available
- PICMG 2.0 R2.1 CompactPCI and pre-2.1 compatible
- User-definable geographic address for each physical slot
- PICMG 2.1 R1.0 CompactPCI Hot Swap Specification compliant
- ATX-compliant power connectors

Power Inputs:

Each of the PS1300 Series has at least 1 ATX header, providing power and measuring voltages on the backplane. The ATX connector can be found on newer PC motherboards and power supplies. The backplanes may either be used with a standard "PC ATX" supply or they may be used with the modular series of power backplanes.

Specifications

Electrical:

PCI Local Bus Specification Rev 2.1
 PICMG 2.0 R2.1 cPCI Specification
 PICMG 2.1 R1.0 cPCI Hotswap Specification

Mechanical:

IEEE 1101.1-1991
 IEEE 1101.10-1996

Mechanical:

The PS1300 backplanes are 8-layer PCBs which are 3.5U (150.9 mm) tall and 0.125" thick (see configuration chart for widths). Two layers are dedicated as ground layers. The backplanes are attached to the subrack

using a series of screws along the top and bottom edges of the backplanes. Approximately every other mounting hole along the top and bottom is connected to digital ground. These holes provide a return to the subrack from the digital PCI ground planes, and are identified by a ground symbol on the rear of the backplane. In situations where connecting digital ground to the

subrack is not desired, the grounded mounting screws can be left uninstalled. On all backplanes, the mounting holes in the four corners of the board are not grounded, so these screws may always be installed.

Order No.	Model No.	Related products
3686571	PS1130	Right rear pallet bridge module (see page 83)
3686679	PS1241	Power supply backplane (see page 87)
3686684	PS1250	Power supply backplane (see page 87)
3688601	PS1260	Power supply backplane (see page 87)
3686570	PS1600	Cable assembly (see page 87)

Order No.	Model No.	Slot count	Bus width	Physical width	ATX Pwr. conn.	Slot expansion	Geographic addressing	Hot swap
3686546	PS1300*	8	64-bit	32HP	3	S	•	•
3687859	PS1301	8	32-bit	32HP	3	S	NA	•
3688419	PS1315B**	8	true 32-bit	32HP	3	S	NA	•
3686547	PS1320	7	64-bit	28HP	2	SBE	•	•
3687860	PS1321	7	32-bit	28HP	2	SBE	•	•
3688420	PS1322B	7	true 32-bit	28HP	2	SBE	•	•
3686548	PS1330	6	64-bit	24HP	2	SBME	•	•
3687861	PS1331	6	32-bit	24HP	2	SBME	•	•
3686575	PS1340	5	64-bit	20HP	2	SBE	•	•
3687862	PS1341	5	32-bit	20HP	2	SBE	•	•
3686576	PS1350	4	64-bit	16HP	1	SBE	•	•
3687863	PS1351	4	32-bit	16HP	1	SBE	•	•
3686578	PS1360	3	64-bit	12HP	1	SBE	•	•
3687864	PS1361	2	64-bit	12HP	1	SBE	•	•
3687865	PS1362	3	32-bit	12HP	1	SBE	•	•

Legend S=Stand alone B=Beginning segment M=Middle segment E=Ending segment 1 HP=0.200" (4HP = 1 single slot width)
 NA=Not Applicable *These backplanes require the PS1140 diode termination module. **These backplanes feature true 32-bit user I/O on the J2 slot, meaning J2 peripheral slots are passthrough only.