PC/104 Signal Assignments

PC/104 Connector Pin Out

Pin Number	J1/P1 Row A	J1/P1 Row B	J2/P2 Row C1	J2/P2 Row D1
0	--	--	GND	GND
1	IOCHCHK*	GND	SBHE*	MEMCS16*
2	SD7	RESETDRV	LA23	IOCS16*
3	SD6	+5V	LA22	IRQ10
4	SD5	IRQ9	LA21	IRQ11
5	SD4	-5V	LA20	IRQ12
6	SD3	DRQ2	LA19	IRQ15
7	SD2	-12V	LA18	IRQ14
8	SD1	ENDXFR*	LA17	DACK0*
9	SD0	+12V	MEMR*	DRQ0
10	IOCHRDY	(KEY)	MEMW*	DACK5*
11	AEN	SMEMW*	SD8	DRQ5
12	SA19	SMEMR*	SD9	DACK6*
13	SA18	IOW*	SD10	DRQ6
14	SA17	IOR*	SD11	DACK7*
15	SA16	DACK3*	SD12	DRQ7
16	SA15	DRQ3	SD13	+5V
17	SA14	DACK1*	SD14	MASTER*
18	SA13	DRQ1	SD15	GND
19	SA12	REFRESH*	(KEY)	GND
20	SA11	SYSCLK	--	--
21	SA10	IRQ7	--	--
22	SA9	IRQ6	--	--
23	SA8	IRQ5	--	--
24	SA7	IRQ4	--	--
25	SA6	IRQ3	--	--
26	SA5	DACK2*	--	--
27	SA4	TC	--	--
28	SA3	BALE	--	--

29	SA2	+5V	--	--
30	SA1	OSC	--	--
31	SA0	GND	--	--
32	GND	GND	--	--

PC-104 uses the PC/PCAT card specification (IEEE P996), but changes the form factor. The specification defines the new mechanical foot print and card power requirements. This is a stacked bus with no backplane or interconnecting cable. The cards plug into each other. A PC-104 card may use an 8 bit interface (PC) or 16 bit interface (PCAT). The PC104 bus is AC terminated to reduce power. An additional enhancement termed PC/104-Plus allows the addition of the PCI bus onto the card.

The PC-104 Bus pinouts shown above use the same pinout described in the PC-AT bus. PC-104 is the PC-AT bus in a new form factor [Card size].

The XT bus used a 62 pin connector in the PC and also with the PC-104 bus. The XT bus is used on J1 in the PC-104 bus, shown above [Also J1 on the PC card].

The AT bus used a 38 pin connector in the PC and also with the PC-104 bus. The AT bus is used on J2 in the PC-104 bus, shown above [Also J2 on the PC card].

Both J1 and J2 Connector used with the PC104 bus have .100" spacing, and may be 'stack-through' (pins extend out the other side of the PWB), or 'non-stack-through (normal PWB mounting).

PC-104Plus adds an additional connector; J3 which carries the PCI bus signals. Refer to the PCI-104 pinout page, or the PCI Bus page for a bus description and information.

Back to the main PC104 bus page for a description, connector manufacturers, IC manufacturers and links.

Electronic Design Key words: PC/104 bus, PC-104 Pinouts, Pin Out, P1/J1 Pinout, P2/J2 Pin Out, Connector, Signal Names, Embedded Computer Bus, PCAT and PCXT pin-out, Signals, Pin Number, Assignment, Specification, Standard, Defined, Constraint, Properties, Lines, Data, Labels

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