
16CH Multiplexer Sub-Board

ATCH-16A(PCI) User's Guide

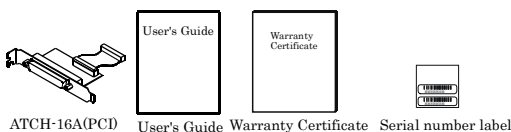
CONTEC CO.,LTD.

Thank you for using CONTEC's 16CH Multiplexer Sub-Board ATCH-16A(PCI).

The ATCH-16A(PCI) is the AD12-16(PCI)EV, AD16-16(PCI)EV channel multiplexer Sub-Board.

Product Configuration List

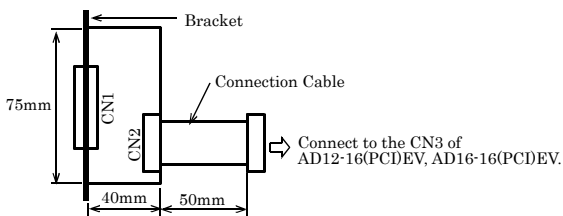
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- User's Guide ...1
- Warranty Certificate ...1
- Serial number label ...1



Features

- 32 single - ended input channels or 16 differential input channels can be added to the AD12-16(PCI)EV, AD16-16(PCI)EV.

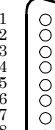
Board Dimensions



⚠ CAUTION

- Do not strike or bend the product. Otherwise, the product may malfunction, overheat, cause a failure or breakage.
 - Do not insert or remove the connector while the power is turned on to the PC. Failure to observe this precaution may cause malfunction, overheating.
 - The specifications of this product are subject to change without notice for quality improvement. Even when using the product continuously, be sure to read the manual and understand the contents.
 - Regardless of the foregoing statement, CONTEC assumes no responsibility for any errors that may appear in this document or for any results of using the product.
 - All relevant issues have been considered in the preparation of this document. Should you notice an omission or any questionable item in this document, please feel free to notify CONTEC CO., LTD.
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Pin Assignments of ATCH-16A(PCI) CN1

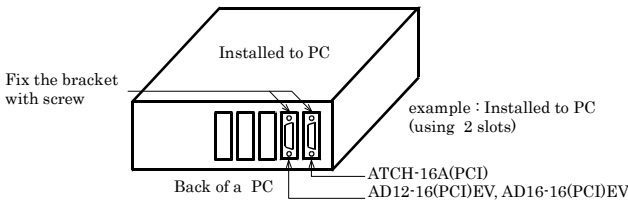
Description		No.	CN1		No.	Description
Analog Input 16 / 8[+]	1	1		20	20	Analog Ground
Analog Input 24 / 8[-]	2	2		21	21	Analog Ground
Analog Input 17 / 9[+]	3	3		22	22	Analog Ground
Analog Input 25 / 9[-]	4	4		23	23	Analog Ground
Analog Input 18 / 10[+]	5	5		24	24	Analog Ground
Analog Input 26 / 10[-]	6	6		25	25	Analog Ground
Analog Input 19 / 11[+]	7	7		26	26	Analog Ground
Analog Input 27 / 11[-]	8	8		27	27	Analog Ground
Analog Input 20 / 12[+]	9	9		28	28	Analog Ground
Analog Input 28 / 12[-]	10	10		29	29	Analog Ground
Analog Input 21 / 13[+]	11	11		30	30	Analog Ground
Analog Input 29 / 13[-]	12	12		31	31	Analog Ground
Analog Input 22 / 14[+]	13	13		32	32	Analog Ground
Analog Input 30 / 14[-]	14	14		33	33	Analog Ground
Analog Input 23 / 15[+]	15	15		34	34	Analog Ground
Analog Input 31 / 15[-]	16	16		35	35	Analog Ground
Analog Output	17	17		36	36	Analog Ground
Simultaneous Hold Output	18	18		37	37	Analog Ground
+5V DC from PC	19	19				37

- The above figure is an arrangement when the receptacle on the board is seen from the plug.
- Analog Input 16 - 32 are single - ended input channels.
- Analog Input 8[+] - 15[-] differential input channels.
- * "Analog Output", "Simultaneous Hold Output", "+5V DC from PC" and "Digital Ground" are the same signals as the AD12-16(PC)EV, AD16-16(PC)EV.

Installation Procedure

Refer to the following steps for ATCH-16A(PCI) installation.

- (1) Connect the ATCH-16A(PCI) to the CN3 of AD12-16(PCI)EV, AD16-16(PCI)EV with the connector cable.
- (2) Install the AD12-16(PCI)EV, AD16-16(PCI)EV and ATCH-16A(PCI) into the PC expansion slots.
- (3) Stabilize the brackets with screws.



CAUTION

- Turn off PC power before installation.
- The ATCH-16A(PCI) connection cable can only be used for the AD12-16(PCI)EV, AD16-16(PCI)EV. Do not use it for other interface boards.

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