



\* Specifications, color and design of the products are subject to change without notice.

# Features

### Buffered by high speed high accuracy amplifiers

This terminal has equipped high response speed high accuracy amplifiers, the inputted analog signals can be truthfully transferred to our analog input board. And because of the high input impedance of buffer amplifiers, the influence applied to the output impedance of signal source can be limited to a very low level.

#### **Crosstalk Prevention**

This board is used to prevent the crosstalk while analog signals of low response speed sources are being inputted to the analog input board.

#### Compact designing

With its compact designing, you can carry it easily after simply removed the connection cables.

## Aluminum Dustproof Cover-Box

The cover-box is lightly designed by using aluminum in consideration of portability.

# **Packing List**

ATBA-16E Termination Panel...1 Power supply connector (MC1,5/3-ST-3,5)...1 User's Manual...1 Warranty Certificate ...1 Signal name Label Sheet...1 This product is purposed to add buffer amplifier function to CONTEC analog input boards.

This product reduces signal-crosstalk in case of inputted analog signals are low response speed.

Moreover, this product enables steady signal measurement, since the buffer amplifier can reduce possible signal noise that may come from a long connection cable.

- \* The contents in this document are subject to change without notice.
- \* Visit the CONTEC website to check the latest details in the document.
- \* The information in the data sheets is as of January, 2018.

# Specifications

Item	Specifications
Analog Input (Buffer Amplifier Par	;)
UnIsolated specification	UnIsolated
Absolute max. input voltage	D 15V
Number of Input Channels	16ch (Single-Ended Input) 8ch (Differential Input)
Input voltage range	-10V - +10V
Input Impedance	1MD or more
Non-Linearity error *1	□ 0.03% of FSR
CN1 Connector Assignment	The same definition as the used AD board
External power supply	5VDC, 0.4A (Max.)
Operating Conditions	0 - 50°C, 10 - 90%RH (No condensation)
Dimensions (mm)	110(W) x 70(D) x 22(H) (No protrusion)
Weight	100g
Supported Products	AD12-16(PCI)EV, AD16-16(PCI)EV, AD12-16U(PCI)EV, AD16-16U(PCI)EV, AD12- 16(PCI)E, AD16-16(PCI)E, AD12-16U(PCI)EH, AD16-16U(PCI)EH, AD12-16(PCI), AD12-16(PC)EH, AD16-16(PC)EH, AD12-16U(PC)EH, AD16-16U(PC)EH
Standard	CE Marking (EMC Directive Class A, RoHS Directive)

\*1 When the environment temperature is 0°C or 50°C, the maximum non-linearity error is 0.04% of full input range.

#### Specifications of Interface Connector CN1, CN 2

<u></u>	
DCLC-J37SAF-20L9L[mfd. by JAE, Female] equivalent	
Lock nut: UNC#4-40(inch screw threads)	
17JE-23370-02(D8C) [mfd. by DDK, Male] equivalent	
FDCD-37P [mfd. by HIROSE, Male] equivalent	
DC-37P-N[mfd. by JAE, Male] equivalent	
PCB37PS-0.5P, PCB37PS-1.5P, PCB37P-1.5P	
PCA37PS-0.5P, PCA37PS-1.5P, PCA37P-1.5P	

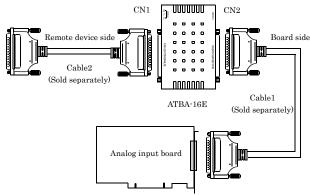
### **Physical Dimensions**

Ø 110 Шſ ▥ 20 п п п п п п шIJ (5.4)0 0



(1.2)

### **Board Connection**



## **Board Connection**

#### Board for PCI :

AD12-16(PCI)EV, AD16-16(PCI)EV, AD12-16U(PCI)EV, AD16-16U(PCI)EV, AD12-16(PCI)E, AD16-16(PCI)E, AD12-16U(PCI)EH, AD16-16U(PCI)EH, AD112-16(PCI) \*1

### Board for ISA :

AD12-16(PC)EH, AD16-16(PC)EH, AD12-16U(PC)EH, AD16-16U(PC)EH

\*1 When connect this terminal to ADI12-16(PCI), an external power supply is necessary.

### Cables (Optional)

Shielded cable with a 37-pin D-SUB connectors on 2 Ends : PCB37PS-0.5P (0.5m), PCB37PS-1.5P (1.5m)

Flat Cable with a 37-Pin D-SUB Connectors on 2Ends : PCB37P-1.5 (1.5m)

Shielded cable with a 37-pin D-SUB connectors on 2 Ends : PCA37PS-0.5P (0.5m), PCA37PS-1.5P (1.5m)

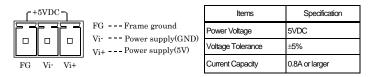
Flat Cable with a 37-pin D-SUB Connector : PCA37P-1.5 (1.5m)

## Connecting an External Power Supply

The terminal can get its power supply from the analog board. In this situation, external power supply is not required.

If you want to control the power consumption of the computer or to use this product together with other terminals, you can use an external power supply to provide power for the terminal.

In case to connect an ADI12-16(PCI) board, an external power supply is required.



A bundled connector plug (MC1,5/3-ST-3,5, Phoenix Contact. Suitable wire: AWG28 - 16) can help you to connect the external power supply.

When you using this MC1,5/3-ST-3,5 plug to connect the external power supply, please strip the end of the corresponding wire, insert it into the connector plug, then fix the screw to secure.

There is an optional AC adapter available from CONTEC.

### Accessories (Optional):

AC adapter (Input: 90 - 264VAC, Output: 5VDC 2.0A): POA200-20

 When using the internal power supply: The terminal can provide the maximum power supply of +5VDC, 1.2A.

(Up to 2A of current can be supplied from analog board and this terminal consums a total of 0.8A current)

When using the external power supply: The terminal can provide the maximum power supply of 5VDC, 2A.

## **A** CAUTION

- To use the AC adapter, please connect it to the terminal first, then plug the AC adapter into a outlet.
- When the terminal is not used, please leave the AC adapter unplugged.
- Continuously using the AC adapter under high temperature environment will affect its life.
- Use the AC adapter not in a closed place but in a well-ventilated place. The AC adapter heats up itself when loaded heavily. If the AC adapter is exposed to high temperature or used continuously, you should keep the load at about 80% of the maximum load.