





| ISA | Model | Multi-Function A/D Board | 16-Bit Multi-Function A/D Board | 16-Bit High Speed Multi-Function A/D Board | |
|--------------------------|---|---|---|--|---|
| | | AD12-16(PC)EH | AD12-16U(PC)EH | AD16-16(PC)EH | AD16-16U(PC)EH |
| Specification | |  |  |  |  |
| Input channels | | 16 single-ended or 8 differential input | | | |
| Output channels | | 1ch | | | |
| Resolution | | 12bit | | 16bit | |
| Input specification | Input range | ±10V, 0~10V | | ±2.5V, ±5V, 0~5V, 0~10V | |
| | Input gain | x1, x2, x4, x8 (specifiable by software for each channel) | | - | |
| | Conversion speed | 10μsec/ch (Max.) | | 1μsec/ch (Max.) | |
| | Non-Linearity error ** | x 2LSB (x 1, x 2), x 4LSB (x 4, x 8) | | ±3LSB | |
| Output specification | Input Impedance | 1MΩ or more | | ±5LSB | |
| | Output range | ±5V, ±10V, 0~10V | | ±10V, 0~10V | |
| | Output rating | Drive current ±5mA (Max.) | | - | |
| | Conversion speed | 6μsec/ch | | 13μsec/ch | |
| Trigger | Non-Linearity error ** | ±1/2LSB | | ±2LSB | |
| | Output Impedance | 1Ω or less | | - | |
| Isolation | Start Trigger: 3 modes, Stop Trigger: 4 modes | | | | |
| Timer | - | | | | |
| Digital I/O | 2~7 x 10 ¹³ μsec | | | | |
| Interrupt | General Digital I/O: Input 3, Output 4 (TTL-level) Sampling Control DIO: Input 3, Output 1 (TTL-level) | | | | |
| I/O address | Interrupt Request Causes | Up to 16 causes | | | |
| | Interrupt Request Level | One of IRQ 5, 7, 9, 10, 11, 12 or 15 | | | |
| Power consumption (Max.) | Any 16-byte boundary | | +5VDC 800mA | | +5VDC 1700mA |
| Bus / Dimension (mm) | +5VDC 800mA | | +5VDC 1000mA | | +5VDC 2000mA |
| Connector | AT Bus / 163.0(L) x 122.0(H) | | AT Bus / 174.0(L) x 122.0(H) | | AT Bus / 163.0(L) x 122.0(H) |
| Option | Software | CN1(AIO): 37-pin female D-type CN2(DIO): 16-pin male header | | | |
| | Accessories | ACX-PAC(W32)BP, ACX-PAC(W32)AP, API-PAC(W32), SUPPORT-PAC(PC)306, DDE SERVER(W32) | | | |
| | Cables / Connector | DTP-3(PC), DTP-4(PC), ATUH-16(PC), ATP-16 **, FTP-15 **, EPD-37 **, ATSS-16 **, ATII-8A **, ATLF-8 ** | | | |
| CE marking | PCA37P, PCB37P, PCA37PS, PCB37PS, PCA15P **, PCB15P **, PCC16PS, PCD8PS, DT/E1, DT/E2 | | ○ | | ○ |

*1: Conversion Accuracy: A value in the table is linearity error at 25°C .
 *2: Option cable of PCB37P or PCB37PS is required.
 *3: Option cable of DT/E2 and PCB15P is required.
 *4: PCB15P is a cable for FTP-15 terminal pannel.

Option

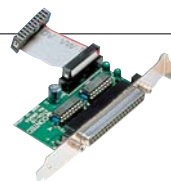
16ch Multiplexer Sub-Board

16 single-ended or 8 differential input

*ATCH-16(PCI) or ATUH-16(PCI) occupies one slot.

ATCH-16(PC)

For use with
 AD12-16(PC)EH
 AD16-16(PC)EH



ATUH-16(PC)

For use with
 AD12-16U(PC)EH
 AD16-16U(PC)EH

