





ISA	Model	12-bit Multi-Function A/D		16-Bit Multi-Function A/D	16-Bit High Speed Multi-Function A/D
		AD12-16(PC)EH	AD12-16U(PC)EH	AD16-16(PC)EH	AD16-16U(PC)EH
					
SPECIFICATIONS					
Input channels		16 single-ended or 8 differential			
Output channels		1			
Resolution		12bit			
Input specifications	Range	±10V, 0~10V	±2.5V, ±5V, 0~5V, 0~10V	±5V, ±10V, 0~5V, 0~10V	±2.5V, ±5V, ±10V, 0~5V, 0~10V
	Gain	x1, x2, x4, x8 (software selectable)	-	-	-
	Conversion speed	10 μ sec/ch (Max.)	1 μ sec/ch (max)	10 μ sec/ch (max)	1 μ sec/ch (max)
	Conversion accuracy*1	±2LSB (x1, x2), ±4LSB (x4, x8)	±3LSB	±5LSB	±5LSB
Output specifications	Impedance	1MΩ or more	-	-	-
	Range	±5V, ±10V, 0~10V	±10V, 0~10V	-	-
	Rating	Drive current ±5mA (Max.)	-	-	-
	Conversion speed	6 μsec/ch	13 μsec/ch	-	-
	Conversion accuracy*1	±1/2LSB	±2LSB	-	-
	Impedance	1Ω or less	-	-	-
Trigger		Start Trigger: 3 modes, Stop Trigger: 4 modes			
Isolation		-			
Timer		2~7 x 10 ¹³ μsec			
Digital I/O		General Digital I/O: Input 3, Output 4 (TTL-level) Sampling Control DIO: Input 3, Output 1 (TTL-level)			
Interrupts	Request Events	Up to 16 events			
	Request Levels	One of IRQ 5, 7, 9, 10, 11, 12 or 15			
I/O address		Any 16-byte boundary			
Power consumption		5VDC 800mA (max)	5VDC 1700mA (max)	5VDC 1000mA (max)	5VDC 2000mA (max)
Bus / Dimensions (mm)		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)	AT Bus / 340.5(L) x 122.0(H)
Connectors		CN1(AIO): 37-pin female D-type CN2(DIO): 16-pin male header			
Options	Software	ACX-PAC(W32)BP, API-PAC(W32), SUPPORT-PAC(PC)306, DDE SERVER(W32)			
	Accessories	DTP-3(PC), DTP-4(PC), ATUH-16(PC), ATP-16 *2, FTP-15 *3, EPD-37 *2, ATSS-16 *2, ATII-8A *2, ATLF-8 *2			
	Cables / Connectors	PCA37P, PCB37P, PCA37PS, PCB37PS, PCA15P *4, PCB15P *4, PCC16PS, PCD8PS, DT/E1, DT/E2			
CE mark		○	○	○	○

*1: Conversion Accuracy: Value is linearity error at 25°C.
 *2: Requires use of optional cable PCB37P or PCB37PS
 *3: Requires use of optional cable DT/E2 and PCB15P
 *4: Optional PCB15P cable is required when using FTP-15 terminal panel

Options

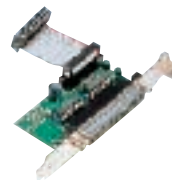
16ch Multiplexer Sub-Board

When used with CONTEC's Intelligent E Series Analog boards, these multiplexers can double the number of available channels to 32 single-ended or 16 differential

* Multiplexers occupy one chassis 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

