

## 8 Channels 12-Bit Multi-Function

### AD12-8(PM)



[API-PAC(W32) Included [API Function Library]

**BNC Terminal Unit for Analog I/O (8ch) ATP-8**



\* Please visit our website for more details.

#### FEATURES

- 8 single-ended analog input
- 16,384 words FIFO memory
- Sampling Clock selectable between internal and external clock

#### SPECIFICATIONS

Correspondent PC	IBM PC(AT series and Compatible Computer (ISA), DOS/4 Correspondent Computer, NEC PC-9800 series)
<b>Analog Inputs</b>	
Channels	8 single-ended
Range	-10V~+10V
Impedance	20kΩ or more
Resolution	12bit
Conversion Speed	10μsec/ch (Max.)
Buffer memory	16,384 words (FIFO type)
Internal clock	10,000nsec~104,857,600nsec (selectable in step of 100nsec)
External clock input	1 TTL level (falling edge)
Simultaneous sampling control output	1 TTL level
Interrupt Request Level	One of IRQ 3~7, 9~12, 14 or 15
<b>Analog Outputs</b>	
Channels	2 TTL level
Range	0V~+4.095V
Resolution	12bit
Conversion Speed	16μsec (Max.)
Maximum drive	5mA

<b>Digital I/O</b>	
Input channels	4 TTL (positive logic)
Output channels	4 TTL (positive logic)
<b>General</b>	
I/O address	Any 16-byte boundary
Power consumption	5VDC 100mA (max)
Operating Conditions	0~50°C, 20~90%RH (no condensation)
Length of Attached Cable	300mm
Card Type	Type II of PCMCIA Rel.2.1/JEIDA 4.2 upper
Weight	500g (including an attached cable)
<b>Options</b>	
Software	ACX-PAC(W32)BP
Accessories	DTP-3(PC), DTP-4(PC), EPD-37A <sup>*1</sup> , EPD-37 <sup>*1</sup> , ATP-8
Cables / Connectors	PCA37P-1.5, PCB37P-1.5, PCA37PS-0.5P/1.5P, PCB37PS-0.5P/1.5P

\*1: Requires use of optional cable PCB37P or PCB37PS

## Isolated Analog Input (USB cable and AC adapter included)

### ADI12-8(USB)GY



[API-USBP(WDM) Included [API Function Library]

\*1: Please use AC adapter (included) or optional power supply.

#### FEATURES

- Onboard 256K data memory
- Screwless connectors for easy wiring - no special tools needed
- Expansion of input channels possible with use of extension modules (3 sets max)
- 35mm DIN rail mountable
- Includes development and debugging software

#### Hardware Specifications

Input channels	8 single-ended
Resolution	12bit
Input type	Voltage input (bus signal isolated)
Input range	Bipolar ±10V, ±5V Unipolar 0~+10V, 0~+5V (common range setting of all channels)
Conversion Speed (Max.)	channels x 10μsec + 20μsec
Buffer memory	256K data (262,144 data)
Sampling timer	10μsec~1,073,741,824μsec
Connector	FK-MC 0.5/9-ST-2.5 [PHOENIX CONTACT]

USB speed	12Mbps (Full Speed) 480Mbps (High Speed)
Power Consumption	5VDC 650mA (max) <sup>*1</sup>
Dimensions (mm)	50.4(W) x 64.7(D) x 94.0(H)
Weight	100g
Attached AC adapter (POA-AD22)	AC90~264V, DC5.0V±5%, 2.0A(Max.)
Length of Attached Cable	USB cable 1.8m

#### Options

ACX-PAC(W32)BP	ActiveX Component Base Package (Ver.3.1 upper)
ADI12-8(FIT)GY	Opto-isolated Analog Input Module Input channels: 8 ch differential input, Resolution: 12bit, Power consumption: 5VDC 350mA (max)
POA-AD22	AC adapter (AC in: 90~264VAC, DC out: 5VDC 2.0A, Length of cable: 1.4m)
POW-AD13GY	AC-DC Power Unit (AC in: 85~132VAC, DC out: 5VDC 3.0A)
POW-AD22GY	AC-DC Power Unit (AC in: 85~264VAC, DC out: 5VDC 2.0A)
POW-DD10GY	DC-DC Power Unit (DC in: 10~30VDC, DC out: 5VDC 3.0A)
POW-DD43GY	DC-DC Power Unit (DC in: 30~50VDC, DC out: 5VDC 3.0A)

## Isolated Analog Output (USB cable and AC adapter included)

### ADI12-4(USB)GY



[API-USBP(WDM) Included [API Function Library]

\*1: Please use AC adapter (included) or optional power supply.

#### FEATURES

- Onboard 256K data memory
- Screwless connectors for easy wiring - no special tools needed
- Expansion of input channels possible with use of extension modules (3 sets max)
- 35mm DIN rail mountable
- Includes development and debugging software

#### Hardware Specifications

Input channels	4ch
Resolution	12bit
Input type	Voltage input (bus signal isolated)
Input range	Bipolar ±10V, ±5V Unipolar 0~+10V, 0~+5V (common range setting of all channels)
Voltage output	0~20mA
Current output	0~20mA
Nonlinearity error	Voltage output: ±3LSB, Current output: ±5LSB
Conversion Speed (Max.)	Voltage output: 10μsec, Current output: 20μsec
Buffer memory	256K data (262,144 data)

Sampling timer	10μsec~1,073,741,824μsec
Connector	FK-MC 0.5/9-ST-2.5 [PHOENIX CONTACT]
USB speed	12Mbps (Full Speed) 480Mbps (High Speed)
Power Consumption	5VDC 700mA (max) <sup>*1</sup>
Dimensions (mm)	50.4(W) x 64.7(D) x 94.0(H)
Weight	100g
Attached AC adapter (POA-AD22)	AC90~264V, DC5.0V±5%, 2.0A(Max.)
Length of Attached Cable	USB cable 1.8m

#### Options

ACX-PAC(W32)BP	ActiveX Component Base Package (Ver.3.1 upper)
ADI12-8(FIT)GY	Opto-isolated Analog Output Module Input channels: 4ch, Resolution: 12bit, Power consumption: 5VDC 400mA (max)
POA-AD22	AC adapter (AC in: 90~264VAC, DC out: 5VDC 2.0A, Length of cable: 1.4m)
POW-AD13GY	AC-DC Power Unit (AC in: 85~132VAC, DC out: 5VDC 3.0A)
POW-AD22GY	AC-DC Power Unit (AC in: 85~264VAC, DC out: 5VDC 2.0A)
POW-DD10GY	DC-DC Power Unit (DC in: 10~30VDC, DC out: 5VDC 3.0A)
POW-DD43GY	DC-DC Power Unit (DC in: 30~50VDC, DC out: 5VDC 3.0A)