

8 Channel 12-Bit Multi-Function Card AD12-8(PM)



API function library attachment [API-PAC(W32)]

BNC Terminal Unit for Analog I/O
ATP-8

* For details, please refer to the home page of CONTEC.



FEATURES

- 8 channels single-ended analog input
- Built-in FIFO memory capable of storing 16,384 bytes of conversion data
- 2 channels analog outputs, Digital I/O - 4 inputs, 4 outputs, TTL

SPECIFICATIONS

Analog Inputs	
Channels	8 single-ended
Input Range	-10V - +10V
Input Impedance	20kΩ or more
Resolution	12bit
Conversion Speed(Max.)	10μsec/ch
Buffer memory	FIFO type 16,384 words
Internal clock	10,000nsec - 104,857,600nsec (specifiable in steps of 100nsec)
External clock input	TTL-level, falling edge
Simultaneous sampling control output	1 TTL-level
Interrupt Request Level	One of IRQ 3-7,9-12,14 or 15
Analog Outputs	
Channels	2 TTL-Level
Output Range	0V - +4.095V
Resolution	12bit
Update rate(Max.)	16μsec
Maximum drive	5mA

Digital I/O	
Inputs channels	4 TTL-level inputs (positive logic)
Output channels	4 TTL-level outputs (positive logic)
General	
I/O address	Any 16-byte boundary
Power consumption (Max.)	DC+5V 100mA
Operating Temp./Humidity	0-50°C, 20-90%RH (no condensation)
Length of an attached cable	300mm
Card type	PCMCIA 2.1/JEIDA 4.2, 16-bit PC Card, JEIDA Type II
Weight	120g (included a cable)

Option	
Software	ACX-PAC(W32)BP, ACX-PAC(W32)AP, DDE SERVER(W32)
Accessories	DTP-3(PC), DTP-4(PC), EPD-37*
Cables/Connector	PCA37P, PCB37P, PCA37PS, PCB37PS, CN5-D37M

*Option cable of PCB37P or PCB37PS is required.

Isolated Analog Input Module (USB cable and AC adapter Attached) AD12-8(USB)GY



API function library attachment [API-USBP(WDM)]

*1: Since current consumption is over 500mA, please use AC adapter (Attached) or a power supply unit (Optional).

FEATURES

- Built-in buffer memory capable of storing 256K words of conversion data
- The system incorporates a screwless connector plug that allows you to easily attach and detach wires without using any special tools
- Extension of the input channels by the extension module is possible (maximum: three sets)
- 35mm DIN rail attachment is adopted
- The sample software which supports development, and convenient utility software debugging are appended to the product

Hardware Specification

Inputs channels	8 differential input
Resolution	12bit
Input type	Voltage input (bus signal isolated)
Input Range	±10V, ±5V, 0 - 10V, 0 - 5V
Conversion Speed(Max.)	Channels x 10μsec + 20μsec
Buffer memory	256K words
Sampling timer	10μsec-1,073,741,824μsec
Connector	FK-MC 0.5/12-ST-2.5 [PHOENIX CONTACT]

USB Speed	12Mbps(Full speed), 480Mbps(High speed)
Power consumption (Max.)	+5VDC 650mA**
Dimensions (mm)	50.4(W)x64.7(D)x94.0(H)
Weight	100g
Attached AC adapter (POA-AD22)	AC90-264V DC5.0V ±5% 2.0A (Max.)
Cable comes with product	USB cable 1.8m

Option

ACX-PAC(W32)BP	ActiveX Component Base Package (Ver.3.1 upper)
ACX-PAC(W32)AP	ActiveX Component Advanced Package (Ver.3.1 upper)
AD12-8(FIT)GY	Isolated Analog input Module for Extension Input Channels: 8ch, Resolution: 12bit, Power consumption: +5VDC 350mA (Max.)
POA-AD22	AC adapter (AC in : 90-246V, DC out : 5V 2.0A)
POW-AD13GY	AC-DC Power Unit (AC in : 85-132V , DC out : 5V 3.0A)
POW-AD22GY	AC-DC Power Unit (AC in : 85-264V , DC out : 5V 2.0A)
POW-DD10GY	DC-DC Power Unit (DC in : 10-30V , DC out : 5V 3.0A)
POW-DD43GY	DC-DC Power Unit (Dc in: 30-50V, Dc out: 5V 3.0A)

Isolated Analog Output Module (USB cable and AC adapter Attached) DAI12-4(USB)GY



API function library attachment [API-USBP(WDM)]

*1: Since current consumption is over 500mA, please use AC adapter (Attached) or a power supply unit (Optional).

FEATURES

- Cyclically outputs of arbitrary waveform are possible with a 256K-word memory
- The system incorporates a screwless connector plug that allows you to easily attach and detach wires without using any special tools
- Extension of the output channels by the extension module is possible (maximum: three sets)
- 35mm DIN rail attachment is adopted
- The sample software which supports development, and convenient utility software debugging are appended to the product

Hardware Specification

Outputs channels	4ch
Resolution	12bit
Output type	Voltage output/Current output (bus signal isolated)
Output Range	±10V, ±5V, 0 - 10V, 0 - 5V (5mA of output current)
Current output	0-20mA
Non-linearity error	Voltage output: ±3LSB, Current output: ±5LSB
Update rate	Voltage output: 10μsec/ch, Current output: 20μsec
Buffer memory	256K words
Sampling timer	10μsec-1,073,741,824μsec

Connector	FK-MC 0.5/12-ST-2.5 [PHOENIX CONTACT]
USB Speed	12Mbps (Full speed), 480Mbps (High speed)
Power consumption (Max.)	+5VDC 700mA**
Dimensions (mm)	50.4(W)x64.7(D)x94.0(H)
Weight	100g
Attached AC adapter (POA-AD22)	AC90-264V DC5.0V ±5% 2.0A (Max.)
Cable comes with product	USB cable 1.8m

Option

ACX-PAC(W32)BP	ActiveX Component Base Package (Ver.3.1 upper)
ACX-PAC(W32)AP	ActiveX Component Advanced Package (Ver.3.1 upper)
DAI12-4(FIT)GY	Isolated Analog output Module for Extension Outputs channels: 4ch, Resolution: 12bit, Power consumption: +5VDC 400mA (Max.)
POA-AD22	AC adapter (AC in : 90-246V, DC out : 5V 2.0A)
POW-AD13GY	AC-DC Power Unit (AC in : 85-132V , DC out : 5V 3.0A)
POW-AD22GY	AC-DC Power Unit (AC in : 85-264V , DC out : 5V 2.0A)
POW-DD10GY	DC-DC Power Unit (DC in : 10-30V , DC out : 5V 3.0A)
POW-DD43GY	DC-DC Power Unit (Dc in: 30-50V, Dc out: 5V 3.0A)