ICP DAS

X304
3-channel A/D (±5V), 1-channel D/A (±5V),
4-channel D/I and 4-channel D/O

🔠 Features

- 3-channel Non-Isolation Analog Input and 1-channel Non-Isolation Analog Output and 4-channel Non-Isolation Digital Input and 4-channel Non-Isolation Digital Output
- 12-bit input (±5 VDC)
- 12-bit output (±5 VDC)

📋 Introduction

The X-board series are for I-7188XA, I-7188XB, I-7188XC, I-7188XG, I-7188EG, I-7188EX and uPAC-7186EX Series (uPAC-7186EX, uPAC-7186PEX, uPAC-7186EG, uPAC-7186EX-FD, uPAC-7186EX-SM). Above one μPAC can plug only one X-board.

X304 is a 3-channel Non-Isolation Analog Input and 1-channel Non-Isolation Analog Output and 4-channel Non-Isolation Digital Input and 4-channel Non-Isolation Digital Output X-board for I-7188XB, I-7188XG, I-7188EX, I-7188EG and uPAC-7186EX Series.

📋 Pin Assignments

AD 2 · AD 1 · AD 0 · GND · DA 0 · DI 3 · DI 2 · DI 1 · DI 0 · PWR · DO 3 · DO 2 · DO 1 · DO 0

(X304)
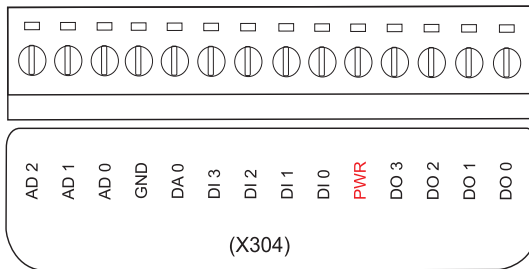
📋 Wire Connections

Voltage Input

Voltage Output

Digital Input	ON State DI value as **0**	OFF State DI value as **1**
Relay Contact	DIx / GND (Relay Close)	DIx / GND (Relay Open)
TTL/CMOS Logic	DIx / GND (Logic Level Low / Logic GND)	DIx / GND (Logic Level High / Logic GND)
Open Collector	DIx / GND (On)	DIx / GND (Off)

Digital Output	ON State DO value as **1**	OFF State DO value as **0**
Drive Relay	DO.PWR / DOx / GND	DO.PWR / DOx / GND
Resistance Load	DO.PWR / DOx / GND	DO.PWR / DOx / GND

📋 Specifications

Analog Input	
Channels	3
Type	Voltage
Range	± 5 VDC
Resolution	12-bit
Sampling Rate	1 KHz Max.
Input Impedance	50 KOhm
Overvoltage Protection	±30 VDC
Isolation	None

Analog Output	
Channels	1
Type	Voltage
Range	± 5 VDC
Resolution	12-bit
Voltage Output Capability	10 mA
Isolation	None

Digital Input		
Channels	4	
Sink/Source (NPN/PNP)	Sink	
Dry Contact	ON Voltage Level	+3.5V ~ +30VDC
	OFF Voltage Level	+1V Max.
Isolation	None	

Digital Output	
Channels	4
Type	Open Collector (NPN)
Load Voltage	≤ +30 VDC
Max. Load Current	100 mA
Isolation	None

Mechanical	
Dimensions (mm)	38 mm x 64 mm

Environmental	
Operating Temperature	-25 ~ +75 °C
Storage Temperature	-40 ~ +80 °C
Humidity	5 ~ 90 %, Non-condensing

📋 Ordering Information

X304 CR	3-channel A/D (±5V), 1-channel D/A (±5V), 4-channel D/I and 4-channel D/O (RoHS)