

## X304

3-channel A/D ( $\pm 5V$ ), 1-channel D/A ( $\pm 5V$ ),  
4-channel D/I and 4-channel D/O

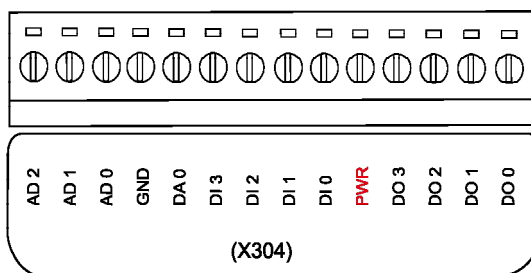
### Introduction

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  $\mu$ PAC 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



### Ordering Information

<b>X304 CR</b>	3-channel A/D ( $\pm 5V$ ), 1-channel D/A ( $\pm 5V$ ), 4-channel D/I and 4-channel D/O (RoHS)
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### 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 ( $\pm 5$  VDC)
- 12-bit output ( $\pm 5$  VDC)



### Specifications

Analog Input		
Channels	3	
Type	Voltage	
Range	$\pm 5$ VDC	
Resolution	12-bit	
Sampling Rate	1 KHz Max.	
Input Impedance	50 KOhm	
Overvoltage Protection	$\pm 30$ VDC	
Isolation	None	
Analog Output		
Channels	1	
Type	Voltage	
Range	$\pm 5$ 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	$\leq +30$ 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	