

# **XW-board vs. XV-board Hardware Comparison**

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**Last Modified Date: Oct. 2016**

## Specifications



**XW-board**



**XV-board**

Communication		
Communication Interface	ICPDAS ISA bus (Parallel)	Modbus RTU (Serial)
Communication Speed	fast	slow
Supported PACs	WP-5141 、 WP-5151 series	WP-5231 series

## Hardware Difference

DI, DO Expansion XW-board			
Model	DI	DO	Isolation
XW107	8	8	-
XW107i			3750 Vrms
XW110i	16	-	3750 Vrms
XW111i	-	16	3750 Vrms

DI, DO Expansion XV-board					
Model	DI			DO	
	Ch	Type	Sink/Source	Ch	Sink/Source
XV107	8	Wet	Source	8	Sink
XV107A			Sink		Source
XV110	16	Dry/Wet	Sink/Source	-	-
XV111	-	-	-	16	Sink
XV111A					Source

Relay output Expansion XV-board					
Model	DI			Relay output	
	Ch	Type	Sink/Source	Ch	Type
XV116	5	Wet	Source/Sink	2	Signal Relay
				4	Power Relay

AI, AO Expansion XW-board							
Model	AI (12-bit)		AO (12-bit)		DI	DO	Isolation
	Ch	Range	Ch	Range			
XW304	6	+/-5 V	1	+/-5 V	4	4	-
XW310	4	+/-10 V	2	+/-10 V	3	3	
XW310C		0 ~ 20 mA		0 ~ 20 mA			

Multi-Function Expansion XV-board									
Model	AI		AO		DI			DO	
	Ch	Range	Ch	Range	Ch	Type	Sink/Source	Ch	Sink/Source
XV306	4	$\pm 1$ V, $\pm 2.5$ V, $\pm 5$ V, $\pm 10$ V, $\pm 20$ mA, 0 ~ 20 mA, 4 ~ 20 mA	-	-	4	Wet	Sink/Source	4	Relay, FormA, 6A
XV307	-	-	2	0 V ~ +5 V, $\pm 5$ V, 0 V ~ +10 V, $\pm 10$ V, 0 mA ~ +20 mA, +4 mA ~ +20 mA					
XV308	8	$\pm 1$ V, $\pm 2.5$ V, $\pm 5$ V, $\pm 10$ V, $\pm 20$ mA, 0 ~ 20 mA, 4 ~ 20 mA	-	-	DI+DO = 8	Dry/Wet	Source	DI+DO = 8	Sink
XV310	4	$\pm 1$ V, $\pm 2.5$ V, $\pm 5$ V, $\pm 10$ V, $\pm 20$ mA, 0 ~ 20 mA, 4 ~ 20 mA	2	0 V ~ +5 V, $\pm 5$ V, 0 V ~ +10 V, $\pm 10$ V, 0 mA ~ +20 mA, +4 mA ~ +20 mA	4	Dry/Wet	Source	4	Source

RS-232, RS-422, RS-485 Expansion XW-board							
Model	Serial Port			DI	DO	Isolation	
	Type	Ch	Wiring				
XW506	RS-232	6	3-wire	-	-	-	
XW507	RS-422/485	1	4/2-wire	5	5		
XW508	RS-232	8	3-wire	-	-		
XW509	RS-232	2	5-wire	4	4		
XW511i	RS-485	4	2-wire	-	-	2500 Vrms	
XW514	RS-485	8	2-wire	-	-	-	


# Software Difference

	XW-board	XV-board
API	XWBoardSDK.dll XW304.dll XW310.dll XW310C.dll	nModbusCE.dll

Note: The default Slave address (Slave ID) of XV-board is one.  
 About the Mapping table of the different XV-board, please refer to the XV-board user manual. [http://ftp.icpdas.com/pub/cd/winpac\\_am335x/wp-5231/document/xv-board\\_user\\_manual\\_v1.0.2.pdf](http://ftp.icpdas.com/pub/cd/winpac_am335x/wp-5231/document/xv-board_user_manual_v1.0.2.pdf)


## Overview

**XW-board**



For more information about the XW-board, please refer to:  
[http://www.icpdas.com/root/product/solutions/pac/upac/xw-board\\_selection.html](http://www.icpdas.com/root/product/solutions/pac/upac/xw-board_selection.html)

**XV-board**



For more information about the XV-board, please refer to:  
[http://www.icpdas.com/root/product/solutions/hmi\\_touch\\_monitor/touchpad/xv-board\\_selection.html](http://www.icpdas.com/root/product/solutions/hmi_touch_monitor/touchpad/xv-board_selection.html)