XW-board vs. XV-board Hardware Comparison

Written by Cindy Huang

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Specifications

XW-board

XV-board

communication method	ICPDAS ISA bus (Parallel)	Modbus RTU (Serial)
communication speed	fast	slow
Application platform	LP-5131/5141 series	LP-5231 series

Hardware Differences

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	±1 V, ±2.5 V, ±5 V, ±10 V, ±20 mA, 0 ~ 20 mA, 4 ~ 20 mA	-	-	4	Wet	Sink/ Source	4	Relay, FormA, 6A
XV307	-	-	2	0 V ~ +5 V, ±5 V, 0 V ~ +10 V, ±10 V, 0 mA~ +20 mA, +4 mA ~ +20 mA					
XV308	8	±1 V, ±2.5 V, ±5 V, ±10 V, ±20 mA, 0 ~ 20 mA, 4 ~ 20 mA	-	-	DI+DO=8	Dry/ Wet	Source	DI+DO=8	Sink
XV310	4	±1 V, ±2.5 V, ±5 V, ±10 V, ±20 mA, 0 ~ 20 mA, 4 ~ 20 mA	2	0 V ~ +5 V, ±5 V, 0 V ~ +10 V, ±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 Differences

	XW-board	XV-board
API library	libxwboard.a	libi8k.a

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/linpac/napdos/lp-5000/lp-52xx/lp-5231/user_manual/xv-board_user_manual_v1.0.2.pdf

Skins Overview

XW-board

More information about the XW-board at:
http://www.icpdas.com/root/product/solutions/pac/upac/xw-board_selection.html

XV-board

More information about the XV-board at:
http://www.icpdas.com/root/product/solutions/hmi_touch_monitor/touchpad/xv-board_selection.html