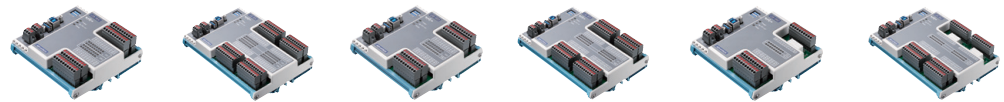


USB I/O Modules and USB Hubs

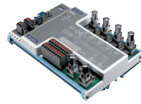


Category			USB 3.0 Isolated Digital I/O						
Model			USB-5830	USB-5856	USB-5850	USB-5855	USB-5860	USB-5862	
Isolated Digital I/O	Input	Channels	16	32	16	32	8	16	
		Input Range	Logic 0: 3 V max. Logic 1: 10 V min. (30 V max.)	Logic 0: 3 V max. Logic 1: 10 V min. (30 V max.)	Logic 0: 3 V max. Logic 1: 10 V min. (30 V max.)	Logic 0: 3 V max. Logic 1: 10 V min. (30 V max.)	Logic 0: 3 V max. Logic 1: 10 V min. (30 V max.)	Logic 0: 3 V max. Logic 1: 10 V min. (30 V max.)	Logic 0: 3 V max. Logic 1: 10 V min. (30 V max.)
		Isolation Protection	2,500 V _{DC}	2,500 V _{DC}	2,500 V _{DC}	2,500 V _{DC}	2,500 V _{DC}	2,500 V _{DC}	
	Output	Channels	16	32	-	-	-	-	
		Load Voltage	5 ~ 40 V _{DC}	5 ~ 40 V _{DC}	-	-	-	-	
		Load Current	350mA/ch (sink) @ 25°C 250mA/ch (sink) @ 60°C	350mA/ch (sink) @ 25°C 250mA/ch (sink) @ 60°C	-	-	-	-	
		Isolation Protection	2,500 V _{DC}	2,500 V _{DC}	-	-	-	-	
Opto-Isolator Response Time	100 µs	100 µs	-	-	-	-			
Relay Output	PhotoMOS SPST (Form A)	Channels	-	-	8	16	-	-	
		Load Voltage	-	-	60V (AC peak or DC)	60V (AC peak or DC)	-	-	
		Load Current	-	-	1.2A/ch	1.2A/ch	-	-	
		Isolation Protection	-	-	1,500 V _{DC}	1,500 V _{DC}	-	-	
		Response Time	-	-	Turn-on: 1 ms (typical) Turn-off: 0.6 ms (typical)	Turn-on: 1 ms (typical) Turn-off: 0.6 ms (typical)	-	-	
	Relay Output Form A	Channels	-	-	-	-	8	16	
		Contact Rating (resistive)	-	-	-	-	2A @ 250 V _{AC} , 2A @ 30 V _{DC}	2A @ 250 V _{AC} , 2A @ 30 V _{DC}	
		Max. Switching Power	-	-	-	-	500 VA, 60 W	500 VA, 60 W	
		Max. Switching Voltage	-	-	-	-	270 V _{AC} , 125 V _{DC}	270 V _{AC} , 125 V _{DC}	
		Response Time	-	-	-	-	Operating time: 10 ms (max.) Release time: 5 ms (max.)	Operating time: 10 ms (max.) Release time: 5 ms (max.)	
Dimensions (L x W x H)			120 x 120 x 40 mm (4.72" x 4.72" x 1.57")	168 x 120 x 40 mm (6.61" x 4.72" x 1.57")	120 x 120 x 40 mm (4.72" x 4.72" x 1.57")	168 x 120 x 40 mm (6.61" x 4.72" x 1.57")	120 x 120 x 40 mm (4.72" x 4.72" x 1.57")	168 x 120 x 40 mm (6.61" x 4.72" x 1.57")	
Board ID Switch			✓	✓	✓	✓	✓	✓	
Operating Temperature			0 ~ 60 °C (32 ~ 140 °F)						
Supported Operating Systems			Windows XP/7/8/10 and Linux						

✓: supported, -: not supported, Δ: optional

- 1 IoT Software Solutions
- 2 Intelligent Systems
- 3 SKY Servers
- 4 AI & Advanced Computer Vision
- 5 Intelligent HMI and Monitors
- 6 Automation Computers
- 7 Intelligent Transportation Platforms
- 8 Mission Critical CompactPCI Platforms
- 9 Utility and Energy Solutions
- 10 EtherCAT Solutions and Automation Controllers
- 11 Intelligent Motion Control Solutions
- 12 High Speed DAQ Solutions
- 13 Industrial Communication
- 14 Intelligent Edge DAQ Devices
- 15 Remote I/O, Wireless I/O & Sensors
- 16 Serial Communication

USB I/O Modules and USB Hubs



Category		USB 3.0 Analog Input Modules			
Model		USB-5801	USB-5817	USB-5820	
Analog Input	Resolution	24	16	–	
	Channels	4 diff./pseudo-diff.	8 diff.	–	
	Sampling Rate	192KS/s, Simultaneous	200kS/s, Multiplexed	–	
	IEPE	2mA	–	–	
	Value Range	Unipolar	–	–	–
		Bipolar	±10 V, ±1 V	0- 20mA, ±10V	–
	Trigger Modes	Configurable Per Channel	✓	✓	–
		Pacer/ Software	✓	✓	–
	External Pulse	✓	✓	–	
Analog Output	Resolution	24	–	16	
	Channels	2	–	4	
	Updating Rate	192KS/s, Simultaneous	–	200kS/s, Multiplexed	
	Output Range	±1 V, ±10 V	–	0-5V, 0-10V, ±5V, ±10V, 0-20mA, 4-20 mA	
Tachometer	Channels	2	–	–	
	Input Range	Logic 0: 3 V max. Logic 1: 10 V min. (30 V max.)	–	–	
	Input Frequency	5kHz	–	–	
Isolated Digital I/O	Input Channels	4	–	–	
	Output Channels	4	–	–	
	Opto-Isolator Response Time	100us	–	–	
	Isolation Protection	2,500 V _{DC}	–	–	
Dimensions (L x W x H)		168 x 120 x 40 mm (6.61" x 4.72" x 1.57")	120 x 120 x 40 mm (4.72" x 4.72" x 1.57")	120 x 120 x 40 mm (4.72" x 4.72" x 1.57")	
Board ID Switch		✓	✓	✓	
Operating Temperature		0 ~ 60 °C (32 ~ 140 °F)			
Supported Operating Systems		Windows XP/7/8/10 and Linux			

✓: supported, –: not supported, △: optional



Category		USB 3.0 Multifunction		USB 2.0 Multifunction		
Model		USB-4711A	USB-4716	USB-4702	USB-4704	
Analog Input	Resolution	12-bit	16-bit	12-bit	14-bit	
	Channels	16 SE/8 diff.	16 SE/8 diff.	8 SE/4 diff.	8 SE/4 diff.	
	Onboard FIFO	1,024 samples	1,024 samples	512 samples	512 samples	
	Sampling Rate	150 kS/s	200 kS/s	10 kS/s	48 kS/s	
	Input Ranges	Unipolar Inputs	-	0 ~ 10, 0 ~ 5, 0 ~ 2.5, 0 ~ 1.25 V	-	-
		Bipolar Inputs	±10, ±5, ±2.5, ±1.25 V ±0.625 V	±10, ±5, ±2.5, ±1.25 V ±0.625 V	±10, ±5, ±4, ±2.5, ±1.25, ±1 V	±10, ±5, ±4, ±2.5, ±1.25, ±1 V
	Trigger Modes	Configurable Per Channel	✓	✓	✓	✓
		Pacer/Software	✓	✓	✓	✓
	Data Transfer	External Pulse	✓	✓	✓	✓
Software		✓	✓	✓	✓	
Analog Output	Resolution	12-bit	16-bit	12-bit	12-bit	
	Channels	2	2	2	2	
	Output Range	0 ~ 5, 0 ~ 10, ±5, ±10 V	0 ~ 5, 0 ~ 10, ±5, ±10 V	0 ~ 5 V	0 ~ 5, 0 ~ 10 V	
	Output Rate	Static update	Static update	Static update	Static update	
Digital I/O	Input Channels	8	8	8	8	
	Output Channels	8	8	8	8	
Timer/Counter	Channels	1	1	1	1	
	Resolution	16-bit	16-bit	32-bit	16-bit	
	Max. Input Frequency	1 KHz	1 KHz	5 MHz	10 MHz	
Auto Calibration		✓	✓	✓	✓	
Dimensions (L x W x H)		132 x 80 x 32 mm (5.2" x 3.15" x 1.26")	132 x 80 x 32 mm (5.2" x 3.15" x 1.26")	70 x 70 mm (2.76" x 2.76")	132 x 80 x 32 mm (5.2" x 3.15" x 1.26")	
Connector		Onboard screw terminal	Onboard screw terminal	DB37	Onboard screw terminal	
Supported Operating Systems		Windows XP/7/8/10 and Linux				
LabVIEW Driver		✓	✓	✓	✓	

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