

Industrial USB I/O Modules

Category			Multifunction		Analog Input
Bus			USB	USB	USB
Model Name			USB-4711A	USB-4716	USB-4718
Analog Input	General Spec.	Resolution	12 bits	16 bits	16 bits
		Channels	16 S.E./8 Diff.	16 S.E./8 Diff.	8 Diff.
		Onboard FIFO	1024 samples	1024 samples	-
		Sampling Rate	150 kS/s	200 kS/s	10 S/s
		Auto Channel Scanning	v	v	-
	Input Ranges	Unipolar Inputs (V)	-	-	J,K,T,E,R,S,B types
		Bipolar Inputs (V)	±10, 5, 2.5, 1.25, 0.625 V	±10, 5, 2.5, 1.25, 0.625 V 0 ~ 10 V, 0 ~ 5 V, 0 ~ 2.5 V, 0 ~ 1.25 V	-
		Configurable Per-Channel	v	v	v
	Trigger Mode	Pacer/Software/ External Pulse	v	v	Software
	Data Transfer Mode	Software	v	v	v
	DMA	-	-	-	
Analog Output		Resolution	12 bits	16 bits	-
		Channels	2	2	-
		Output Range (V)	0 ~ 5, 0 ~ 10, ±5, ±10	0 ~ 5, 0 ~ 10, ±5, ±10	-
		Throughput	Static update	Static update	-
Digital I/O		Input Channels	8	8	8 (Isolated)
		Output Channels	8	8	8 (Isolated)
Timer/Counter		Channels	1	1	-
		Resolution	32 bits	32 bits	-
		Time Base	1 kHz	1 kHz	-
Isolation Voltage			-	-	2,500 Vdc
Auto Calibration			v	v	v
BoardID Switch			Software	Software	Software
Dimensions (mm)			132 x 80 x 32	132 x 80 x 32	132 x 80 x 32
Connector			Onboard screw terminal	Onboard screw terminal	Onboard screw terminal
Windows 2000/XP DLL Driver & Windows CE 5.0 Driver			v	v	v
Windows 2000/XP Test Utility			v	v	v
VC++, VB & Delphi Examples			v	v	v
Advantech ActiveDAQ/ActiveDAQ Pro			v	v	v
Labview I/O Drivers (Ver. 6i and 7.0)			v	v	v

Catagory			Non-Isolated DI/O		Isolated DI/O	
Bus			USB	USB	USB	USB
Model Name			USB-4751	USB-4751L	USB-4750	USB-4761
TTL DI/O	Input Channels		48	24	-	-
	Output Channels				-	-
	Output Channel	Sink Current	0.4 V @ 8 mA	0.4 V @ 8 mA	-	-
		Source Current	2.4 V @ 4 mA	2.4 V @ 4 mA	-	-
Isolated DI/O	Input	Channels	-	-	16	8
		Isolation Voltage	-	-	2,500 V _{DC}	2,500 V _{DC}
		Input Range	-	-	5 ~ 50 V _{DC}	5 ~ 30 V _{DC}
	Output	Channels	-	-	16	8 x Form C
		Isolation Voltage	-	-	2,500 V _{DC}	2,500 V _{DC}
		Output Range	-	-	5 ~ 40 V _{DC}	-
		Max. Sink Current	-	-	100 mA max. per channel	30 VDC @ 1A, 240 VAX @ 0.25 A
	Timer/Counter		Channels	2	2	2
Resolution			32 bits	32 bits	32 bits	-
Time Base			10 MHz	10 MHz	1 MHz	-
Advanced Function	Output Status Read Back		v	v	v	v
Dimensions			132 x 80 x 32	132 x 80 x 32	132 x 80 x 32	132 x 80 x 32
Connectors			2 x opto-22 compatible box header	1 x opto-22 compatible box header	Onboard screw terminal	Onboard screw terminal
Windows 2000/XP DLL Driver & WinCE 5.0 Driver			v	v	v	v
Windows 2000/XP Test Utility			v	v	v	v
VC++, VB & Delphi Examples			v	v	v	v
Advantech ActiveDAQ/ActiveDAQ Pro			v	v	v	v
Labview I/O Drivers (Ver. 6 AND 7.0)			v	v	v	v
Mathworks Matlab & Simulink Data Acquisition Tool Box x 2.5.1			-	-	-	-
KW Win32 Driver			-	-	-	-