USB-4750	USB-4751	USB-4751L	USB-4761	USB-4622	USB-4671
					
USB 1.1/2.0	USB 1.1/2.0	USB 1.1/2.0	USB 1.1/2.0	USB 2.0	USB 2.0
Digital I/O	Digital I/O	Digital I/O	DI/Relay	* 5 downstream	GPIB
--	--	--	--	USB 2.0 port	* High-performance
--	--	--	--	* Compatible with	USB Module with a
--	--	--	--	USB 2.0/1.1/1.0	GPIB interface.
--	--	--	--	*480Mbps high-	* Fully compatible
				speed data	with IEEE 488.1
--	--	--	--	transfer	and 488.2
--	--	--	--	* LED indicator	standards.
--	--	--	--	* Suitable for DIN-	* Supports
--	--	--	--	rail mounting	controller/slave
--	--	--	--	* Lockable USB	driver control mode
--	--	--	--	cable	* Perform basic the
--	--	--	--		IEEE 488 talker,
16/16	48(mixed)	24(mixed)	8/8		listener and
5~50V	5V TTL	5V TTL	5~30V		controller functions
5~40V	5V TTL	5V TTL	250Vac@3A		required by IEEE
100mA/ch.	Sink:8mA@4V	Sink:8mA@4V	24Vdc@1A		488.2.
	Source:4mA@2.4V	Source:4mA@2.4V			* Connect up to 15
2	2	2	--		GPIB instruments.
5V TTL	5V TTL	5V TTL	--		
32-bit	32-bit	32-bit	--		
1MHz	8MHz	8MHz	--		
--	2 (PWM)	2 (PWM)	--		
--	--	--	--		
--	8MHz	8MHz	--		

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USB Data Acquisition Product Selection Guide

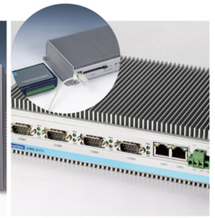
		USB-4711A	USB-4716	USB-4718
				
Bus		USB 2.0	USB 2.0	USB 2.0
Features		Multifunction	Multifunction	Temperature
Analog Input	**Resolution**	12-bit	16-bit	16-bit
	Channels	16S.E./8Diff.	16S.E./8Diff.	8Diff.
	Sampling Rate	150kS/s	200kS/s	10S/s
	Input Voltage	±10,5,2.5 1.25,0.625V	±10,5,2.5 1.25,0.625V 0~10,5,2.5,0.125V	J,K,T,E,R,S,B types 0~2500, 1000, 500, 100, 50, 15mV
	Input Current	--	--	0~20,4~20mA
Analog Output	**Resolution**	12-bit	16-bit	--
	Channels	2	2	--
	Isolation	--	--	--
	Output range	±10,5V;0~5,10V	±10,5V;0~5,10V	--
	Throughput	Static update	Static update	--
Digital I/O	**Channels**	8/8	8/8	8/8
	Input Voltage	3.3/5V TTL	3.3/5V TTL	5~30V
	Output Voltage	3.3V TTL	3.3V TTL	5~30V
	Output Current	Sink:4mA	Sink:2mA	200mA/ch
		Source:4mA	Source:2mA	1.1A/total
Counter	**Channel**	1	1	--
	Input Voltage	3.3/5V TTL	3.3/5V TTL	--
	Resolution	32-bit	32-bit	--
	Time Base	1KHz	1KHz	--
Pulse Output	**Channel**	1	1	--
	Output Voltage	3.3V TTL	3.3V TTL	--
	Output Frequency	1KHz	1KHz	--

Think outside the box

The idea of Advantech USB DAQ series is to separate computing platform and data acquisition interface into two parts. In general, technologies of data acquisition and control interface don't change as fast as technologies of computing platforms, which means the life cycle of data acquisition devices are quite longer than platforms'. By using the add-on Advantech USB DAQ series, users can easily upgrade their platforms to the most up-to-date technologies, or accomplish the daily maintenance work, while leaving the data acquisition devices untouched, allowing them to operate as stable and reliable as usual.

Outdoor Applications

With Computer Applications



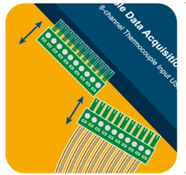
With Controller Applications

Lockable USB Cable

Reliable Connections are critical to automation control and online production. While the standard USB cable is designed for easy plugging and removing, Advantech invests R&D efforts to provide screw-type USB cables which prevent the cable from being unplugged accidentally.

DIN-rail Mounting

DIN-rail is widely used for mounting power supplies, circuit breakers and other industrial control equipment installed within a rack. All Advantech USB Data Acquisition modules come with DIN-rail brackets, making them eligible for standardized 35mm wide DIN-rail mounting.

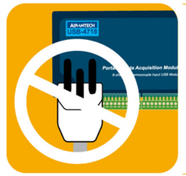


Detachable Screw Terminal

Saving Money & Space are the main benefits of using detachable screw terminals on Advantech USB Data Acquisition modules. Hundreds of dollars can be saved from not having to buy additional cables and/or wiring boards, while extra space can be spared as well.

On-Module Pin Assignment Index

An Instinctive Sense of Wiring simplifies the users' maintenance efforts and reduces incorrect connections that may damage the device itself or the linking equipment. All of the pin indexes are pre-printed on the casing of Advanech's USB Data Acquisition modules, providing users a more direct way to operate.



Bus-Powered

No Need for External Power allows high mobility for Advantech's USB Data Acquisition modules. Advantech's USB Data Acquisition modules can directly derive power from system USB ports, freeing you from the inconvenience of being unable to find a power source indoors or outdoors.

Plug & Play/ Hot Swap

Set Up Your Devices Within Seconds and you're ready to go. It takes just a few steps to install Advantech's USB Data Acquisition modules without dismantling or shutting down your system. Up to 16 devices can be applied to your PC.

480Mbps High Speed Data Transfer

Advanced Data Acquisition Functions can be accomplished. Up to 200kS/s sampling rate, 16-bit resolution, 16-ch analog input, 48-ch Digital I/O specifications, as well as interrupt, event counter, and pulse width modulation (PWM) functions are available on Advantech's USB Data Acquisition modules.

Palm-Sized

Compact Yet Highly Integrated. Advantech's USB Data Acquisition modules are small enough to make them a great sidekick for notebooks, while still providing the same functionality as full-sized modules. Analog I/O, Digital I/O and Counter functions can be all enclosed into a single module. They are the perfect companions when you travel to exhibitions or a business show.

Versatile Software/ Utility Support

Software plays a vital role in developing automated data acquisition and control systems. Advantech's USB Data Acquisition Series provides not only the advanced functionality of hardware, but versatile drivers, ready-to-use utilities and tools that facilitate programming, application development and data analysis. Furthermore, the powerful software supported by Advantech's USB Series helps users build highly flexible and reliable systems.

ActiveDAQ Pro with Graphic User Interface (GUI)

ActiveDAQ Pro is a collection of ActiveX controls for performing I/O operations within a compatible ActiveX control container, such as Visual Basic, Visual C, Borland C++ Builder, and Delphi. You can easily perform I/O operations without a lot of programming or property setting adjustments.

Meanwhile, the graphic user interface (GUI) enables convenient and quick building of graph display modules for data acquisition to supervise the status changes of objects. ActiveDAQ Pro GUI control collection also helps users easily develop prototype vision applications in an interactive environment without programming. **(Ordering part number: PCLS-ADPSTD)**

WaveScan 2.0 Free

Ready-to-use utility that performs real-time wave display, data logging functions with graphic user interface. Easy installation and operation make you get your work done within minutes.

Windows 2000/XP/32-bit Vista DLL Driver

Windows Vista

Performing versatile I/O operations through properties, methods and events in programs developed with Microsoft Visual Basic, Microsoft Visual C++, Delphi, Borland C++ Builder and other programming languages and development environments.

Windows CE Driver

Windows CE

Supporting Windows CE platform that features as a component-based, embedded and real-time OS with minimal system requirement.

LabVIEW Driver

The LabVIEW driver forms an interface between Advantech USB Data Acquisition Series DLL drivers and LabVIEW software. It provides a VI (virtual instrument) in the LabVIEW package, which enables other applications to be used in conjunction with the USB Data Acquisition Series hardware.