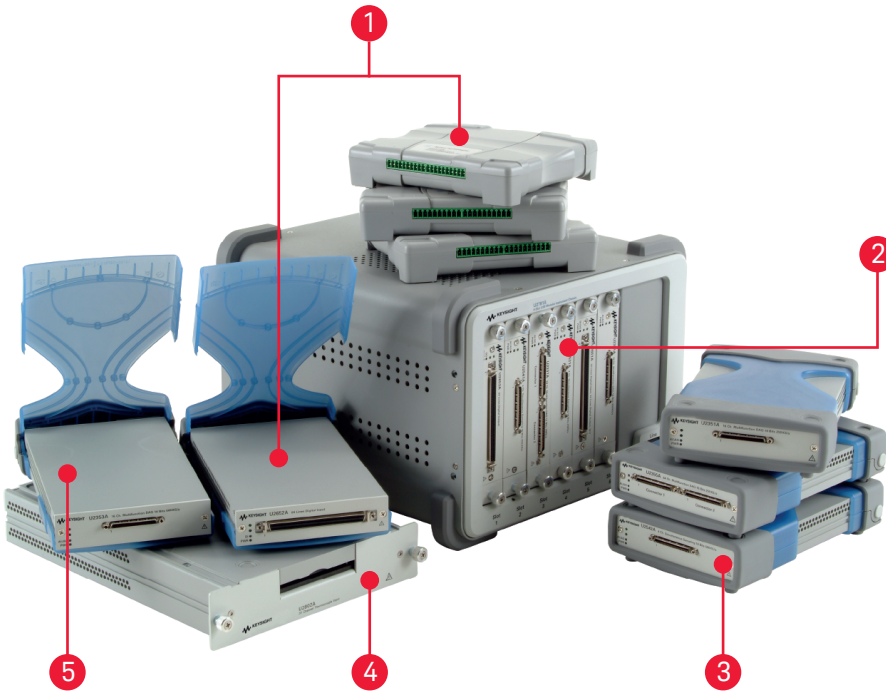


Keysight USB Data Acquisition Series

Your choice, your way

The Keysight Technologies, Inc. USB data acquisition (DAQ) family gives you the choice and flexibility to create standalone or modular solutions that expand and evolve according to your test requirement needs. Whatever your configuration, setup is easy with high-speed USB 2.0 connectivity: just plug the device into your PC and launch the bundled software.



Key features

1. U2100A and U2600A Series USB digital input/output (DIO) devices

High input/output voltage range meets demanding requirements for industrial applications such as driving relays and actuators.

- 64 opto-isolated lines and up to 35 V voltage range for U2600A Series.
- 32 opto-isolated lines and up to 24 V voltage range for U2100A Series.
- Isolation voltage of up to 1500 Vrms for U2100A Series and 1250 Vrms for U2600A Series.

2. U2781A USB modular instrument chassis

Six-slot modular chassis for expansion of channels and synchronization between modules with U2300A Series multifunction DAQ, U2500A Series simultaneous sampling multifunction DAQ and U2600A Series DIO devices.

3. U2500A Series USB simultaneous sampling multifunction DAQ devices

- Individual ADCs for each channel enable high sampling rates and simultaneous acquisition of signals for phase-sensitive applications.
- High analog input sampling rate of up to 2 MSa/s for each channel.
- Provides up to 16-bit resolution to ensure measurement accuracy.

4. U2802A thermocouple input device

Works with 64-channel U2355A and U2356A multifunction DAQ for temperature measurements.

- Configurable for either temperature or voltage measurements up to 10 V.
- 31 thermocouple inputs enable multiple measurements with just one unit.
- Built-in error detection function to detect any open thermocouple connections.

5. U2300A Series USB multifunction DAQ devices

- High analog input sampling rate coverage of up to 3 MSa/s for a single channel.
- High analog input up to 64 channels enables more tests in less time and reduce space and costs.
- Provides up to 16-bit resolution to ensure measurement accuracy.

DAQ device specifications

U2300A Series USB multifunction DAQ¹

Model number	Channel count		Max sampling rate (kSa/s)		Resolution (bits)	
	Analog input	Analog output	Analog input	Analog output	Analog input	Analog output
Basic multifunction DAQ						
U2351A	16 SE / 8 DI	2	250	1000	16	16
U2352A	16 SE / 8 DI	-	250	-	16	-
U2353A	16 SE / 8 DI	2	500	1000	16	16
U2354A	16 SE / 8 DI	-	500	-	16	-
High density multifunction DAQ						
U2355A	64 SE / 32 DI	2	250	1000	16	12
U2356A	64 SE / 32 DI	2	500	1000	16	12
U2331A	64 SE / 32 DI	2	1000 (multiple channels)	1000	12	12
			3000 (single channel)			

U2500A USB multifunction simultaneous sampling multifunction DAQ¹

Model number	Channel count		Max sampling rate (kSa/s)		Resolution (bits)	
	Analog input	Analog output	Analog input	Analog output	Analog input	Analog output
U2541A	4	2	250	1000	16	12
U2542A	4	2	500	1000	16	12
U2531A	4	2	2000	1000	14	12

USB isolated DIO devices

Model number	Number of digital lines		Voltage range (V)		Isolation voltage
	Input lines	Output lines	Input	Output	(Vrms)
U2100A Series					
U2121A	16	16	0 - 24	5 - 24	1500
U2122A	32	-	0 - 24	-	1500
U2123A	-	32	-	5 - 24	1500
U2600A Series					
U2651A	32	32	0 - 24	0 - 35	1250
U2652A	64	-	0 - 24	-	1250
U2653A	-	64	-	0 - 35	1250

USB isolated DIO devices

Model number	Channel count	Max input voltage (V)	Thermocouple types supported
U2802A	31	10	J, K, R, S, T, N, E and B

1. All models come with 24-bit DIO and 2 general purpose counters

Accessories



Part number	Description
U2901A	Terminal block and SCSI-II 68-pin connector with 1-meter cable (for U2300A & U2500A Series)
U2902A	Terminal block and SCSI-II 68-pin connector with 2-meter cable (for U2300A & U2500A Series)
U2903A	Terminal block and SCSI-II 100-pin connector with 1-meter cable (for U2600A Series)
U2904A	Terminal block and SCSI-II 100-pin connector with 2-meter cable (for U2600A Series)
U2905A	Rackmount kit for the U2781A modular instrument chassis
U2802A-100	Thermocouple kit

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