Product Fact Sheet Keysight U2700A Series USB Modular Instruments

Make bench-quality measurements with space-saving, affordable modules

Roughly the size of a paperback book, Keysight USB modular instruments make it easy to perform essential measurements – waveforms, voltage, current, resistance, and more and inject standard or arbitrary waveforms into the systems or devices you're testing.

The familiar front panels are on your laptop screen: With the companion Keysight Technologies, Inc. Measurement Manager software, you'll be ready for measurements at a customer site, an outsourced manufacturing operation, and beyond. With USB 2.0 connectivity and plug-and-play simplicity, you can carry bench-quality measurements alongside a laptop PC in your bag. What's more, each device can be mounted in the six-slot U2781A USB modular chassis with other modules for modular operations. The chassis enables synchronization of all slotted modules through master/slave triggering capabilities.





U2701A/U2702A USB modular two-channel oscilloscopes U2761A USB modular one-channel function generator

- Bandwidth of 100 MHz (U2701A) or 200 MHz (U2702A)
- 500 MSa/s sampling and 16 Mpts of memory
- Advanced triggering including edge, pulse width and line-selectable video
 - 200 kHz – Optional arbitrary waveform generation upgrade (2 MHz)

- AM, FM, PM, ASK, FSK and PSK signals

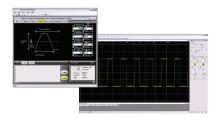
- Pulse, ramp, triangle, noise and DC waveforms

- 20 MHz Sine and Square waveforms



U2741A USB modular digital multimeter

- Broad set of features and functions with 5½-digit resolution
- DC and true-RMS AC voltage/current, two- and fourwire resistance, frequency, diode test, continuity and temperature
- Fast measurements with up to 100 readings/second



Keysight Measurement Manager (AMM) Highlights:

- AMM software provides a friendly interface for modular instruments
- Control instruments through individual windows that provide a familiar interface
- Configure instruments and measurements quickly and easily



- 64 Kpt arbitrary waveforms with 14-bit resolution up to

U2722A/U2723A USB modular source measure unit

- Four quadrant source measure operation of ± 20 V/± 120 mA per channel
- 100 pA measurement with 16-bit resolution
- Embedded test script (for U2723A)
- IV Curve application support in Keysight Measurement Manager software (for U2723A)



U2751A USB modular switch matrix (32-channel, 4x8 2-wire)

- 32 two-wire crosspoints in a flexible 4x8 configuration
- Minimal crosstalk and insertion loss at 45 MHz
- Convenient user interface



USB modular two-channel oscilloscopes

Model	Description	
U2701A 1	100 MHz USB modular oscilloscope	
U2702A ²	200 MHz USB modular oscilloscope	

Option and accessories

Model	Description
U2921A-100	BNC cable 1.2 m
U2921A-101	USB secure cable 2 m
10070C	1:1, 20 MHz passive probe
N2862A	10:1 passive probe 150 MHz 1.2 m (for U2701A)
N2863A	10:1 passive probe 300 MHz 1.2 m (for U2702A)

1. Includes 2 x N2862A 10:1 passive probe 150 MHz 1.2 m

2. Includes 2 x N2863A 10:1 passive probe 300 MHz 1.2 m

USB modular one-channel function generator

Model	Description	
U2761A	USB modular function generator	
Option and accessories		
option and	4000001100	
Model	Description	
	Description	

U2010A	Arbitrary	waveform	generation ι	upgrade	to 2	MHz

U2010A-1FP Arbitrary waveform generation upgrade bundle purchase with U2761A

USB modular digital multimeter

Model	Description	
U2741A ³	USB modular DMM	

Option and accessories

Model	Description
U2921A-101	USB secure cable, 2 m
34138A	Test lead set

3. Includes 34138A test lead set

USB modular source measure unit

- Model
 Description

 U2722A
 USB modular source measure unit
- U2723A USB modular source measure unit

Option and accessories

Model	Description

U2941A Parametric test fixture (standalone) U2942A Parametric Measurement Manager Pro U2921A-101 USB secure cable, 2 m

USB modular switch matrix

ModelDescriptionU2751AUSB modular switch matrix

Option and accessories

Model	Description
U2922A-201	Terminal block
U2921A-101	USB secure cable, 2 m

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System requirements

Keysight Measurement Manager software

Hardware requirements

- Processor 1.6 GHz Pentium IV or higher
- Operating system One of the following Microsoft Windows versions:
- Windows XP Professional or Home Edition, Service Pack 1 or later
- Windows Vista 32-bit (Business, Ultimate, Enterprise, Home Basic, and Home Premium Edition)
- Windows 7 32-bit (Professional, Ultimate, Enterprise, Home Basic, and Home Premium Edition)
- Windows 7 (64-bit) support for 32-bit application running on a WOW64 (Windows-on-Windows 64-bit) emulator
- Hard disk space 1GB
- RAM 512 MB or higher recommended
- Video Super VGA (800 x 600) 256 colors or more

Software requirements

- Keysight IO Libraries Suite 15.0 or higher ⁴
- Keysight T&M Toolkit Runtime version 2.1 ⁵
- Keysight T&M Toolkit Redistributable Package 2.1 patch ⁵
- Microsoft.NET Framework version 2.0 ⁵
- 4. Available on the Keysight Automation-Ready CD-ROM
- 5. Bundled with Keysight Measurement Manager software application installer

Ordering information

All products include:

- 12 V, 2 A AC/DC adapter and power cord
- USB standard-A to Mini-B interface cable
- L-mount kit (for modular instrument chassis)
- Keysight Automation-Ready CD (contains Keysight IO Libraries Suite)
- Keysight USB Modular Products Quick Start Guide and reference CD-ROM
- AMM Quick Reference Card
- Certificate of calibration

