


Aumictech

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight U2722A

Agilent / Keysight U2722A USB Modular Source Measure Unit The Keysight (Agilent) U2722A isathree-channel USB modular source measure unit with four-quadrant operation to plus or minus 20 V and plus or minus 120 mA per channel. OEM U2722A/U2723A datasheets list 16-bit resolution, 100 pA measurement sensitivity, and 0.1 percent basic accuracy. Semiconductor device characterization, leakage measurement, solar-cell IV, and multi-channel force/measure in USB modular systems. Four-quadrant plus or minus 20 V / plus or minus 120 mA The Keysight (Agilent) U2722A isathree-channel USB modular source measure unit with four-quadrant operation to plus or minus 20 V and plus or minus 120 mA per channel. OEM U2722A/U2723A datasheets list 16-bit resolution, 100 pA measurement sensitivity, and 0.1 percent basic accuracy. Semiconductor device characterization, leakage measurement, solar-cell IV, and multi-channel force/measure in USB modular systems. Four-quadrant plus or minus 20 V / plus or minus 120 mA 16-bit resolution on voltage and current ranges



MODEL

**Agilent / Keysight
U2722A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

U2722A

LISTING

<https://aumictechlabs.com/products/u2722a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight U2722A is a three-channel USB modular source measure unit (SMU) delivering precision voltage and current sourcing with four-quadrant operation. This compact instrument sources and measures voltage from -20 V to +20 V and current from -120 mA to +120 mA per channel, with measurement sensitivity down to nanoampere levels and 100 pA resolution.

Channels can be configured in series or parallel to reach 60 V or 360 mA, making it suitable for I-V characterization of semiconductors, battery testing, and LED validation. The U2722A operates standalone or integrates into the U2781A modular chassis for synchronized, scalable multi-channel testing.

Technical Specifications

Voltage range: -20 V to +20 V per channel
Current range: -120 mA to +120 mA per channel
Voltage programming accuracy: ± 2 V range 0.075% + 1.5 mV; ± 20 V range 0.05% + 10 mV
Current programming accuracy: ± 120 mA range 0.1% + 100 μ A
Current measurement: Down to nanoampere levels with 100 pA minimum resolution
Voltage readback resolution: 0.1 mV
Measurement resolution: 16-bit
Four-quadrant capability: Sources and sinks current with both voltage polarities
Channel configuration: Series/parallel operation up to 60 V or 360 mA
Output isolation: All channels isolated from ground and each other
Power consumption: +12 VDC, 3 A maximum

Key Features

- High-speed USB 2.0 connectivity (USB TMC-USB488)
- SCPI and IVI-COM remote programming support
- Bundled Keysight Measurement Manager (KMM) and BenchVue software
- Parametric Measurement Manager (PMM) Pro included
- Command Logger converts SCPI to VEE, VB, C++, and C# code
- Windows operating system compatibility

Typical Applications

- Semiconductor device I-V characterization
- Battery testing and validation
- LED testing and characterization

Compatibility & Integration

The U2722A connects via USB 2.0 and supports industry-standard SCPI and IVI-COM protocols, enabling integration into diverse measurement environments and automation frameworks.

U2722A Characteristics / Specifications

PARAMETER	VALUE
Number Of Channels	3
Voltage Output Range	minus 20 V to plus 20 V
Current Output Range	minus 120 mA to plus 120 mA
Voltage Programming Accuracy Plus Or Minus 2 V	0.075 percent + 1.5 mV
Voltage Programming Accuracy Plus Or Minus 20 V	0.05 percent + 10 mV
Voltage Resolution Plus Or Minus 2 V	0.1 mV
Voltage Resolution Plus Or Minus 20 V	1 mV
Current Programming Accuracy Plus Or Minus 1 uA	0.085 percent + 0.85 nA
Current Programming Accuracy Plus Or Minus 10 uA	0.085 percent + 8.5 nA
Current Programming Accuracy Plus Or Minus 100 uA	0.075 percent + 75 nA
Current Programming Accuracy Plus Or Minus 1 mA	0.075 percent + 750 nA
Current Programming Accuracy Plus Or Minus 10 mA	0.075 percent + 7.5 uA
Current Programming Accuracy Plus Or Minus 120 mA	0.1 percent + 100 uA
Current Resolution Best	100 pA on 1 uA range
Basic Accuracy Class	0.1 percent
Measurement Sensitivity	100 pA
ADC Resolution	16 bits
Channel Isolation	plus 60 VDC Category 1
Connectivity	Hi-Speed USB 2.0 USBTMC
Noise Peak To Peak 2 V Ranges Class	50 mV (10 Hz to 20 MHz)
Warm Up For Specs	3 hours

PARAMETER	VALUE
Operating Temperature Output Ratings	0 C to 50 C
Command Set	SCPI and IVI-COM
Operating temperature	Output Ratings: 0 C to 50 C

U2722A Specifications

PARAMETER	VALUE
Three isolated SMU channels	Four-quadrant plus or minus 20 V / plus or minus 120 mA
Technical Specifications	Number Of Channels: 3
Notes	From Keysight U2722A/U2723A USB Modular Source Measure Unit datasheet specification tables for U2722A.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Output Ratings: 0 C to 50 C
Operating Temperature	Output Ratings: 0 C to 50 C
Operating Temperature Output Ratings	0 C to 50 C
Command Set	SCPI and IVI-COM Notes From Keysight U2722A/U2723A USB Modular Source Measure Unit datasheet specification tables for U2722A.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

PARAMETER	VALUE
Number Of Channels	3
Voltage Output Range	minus 20 V to plus 20 V
Current Output Range	minus 120 mA to plus 120 mA

Voltage Programming Accuracy Plus Or Minus 2 V: 0.075 percent + 1.5 mV
Voltage Programming Accuracy Plus Or Minus 20 V: 0.05 percent + 10 mV
Voltage Resolution Plus Or Minus 2 V: 0.1 mV
Voltage Resolution Plus Or Minus 20 V: 1 mV
Current Programming Accuracy Plus Or Minus 1 uA: 0.085 percent + 0.85 nA
Current Programming Accuracy Plus Or Minus 10 uA: 0.085 percent + 8.5 nA
Current Programming Accuracy Plus Or Minus 100 uA: 0.075 percent + 75 nA
Current Programming Accuracy Plus Or Minus 1 mA: 0.075 percent + 750 nA
Current Programming Accuracy Plus Or Minus 10 mA: 0.075 percent + 7.5 uA
Current Programming Accuracy Plus Or Minus 120 mA: 0.1 percent + 100 uA

Specifications

PARAMETER	VALUE
Current Resolution Best	100 pA on 1 uA range
Basic Accuracy Class	0.1 percent
Measurement Sensitivity	100 pA
ADC Resolution	16 bits
Channel Isolation	plus 60 VDC Category 1
Connectivity	Hi-Speed USB 2.0 USBTMC

Noise Peak To Peak 2 V Ranges Class: 50 mV (10 Hz to 20 MHz)

Specifications

PARAMETER	VALUE
Warm Up For Specs	3 hours
Operating Temperature Output Ratings	0 C to 50 C
Command Set	SCPI and IVI-COM

Notes
From Keysight U2722A/U2723A USB Modular Source Measure Unit datasheet specification tables for U2722A.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.