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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight U2781A

Remote Interface Through Modules: Hi Speed USB 2.0 Operating Target: R andDdesign validation manufacturing Simultaneous Sync Interface: SSI supported From Keysight USB Modular Products data sheet chassis section for U2781A. Operating Target: R andDdesign validation manufacturing Simultaneous Sync Interface: SSI supported From Keysight USB Modular Products data sheet chassis section for U2781A.



MODEL

**Agilent / Keysight
U2781A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

U2781A

LISTING

[https://aumictechlabs.c
om/products/u2781a-2/](https://aumictechlabs.com/products/u2781a-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight U2781A is a 4U USB modular instrument chassis house up to six Keysight USB modular products. It delivers synchronized multi-module operation through its Simultaneous Synchronization Interface (SSI), star trigger bus, and dedicated trigger lines - enabling precise coordination between USB modules and external signals. The 200 W universal AC power supply and built-in protection circuit support demanding industrial and scientific workflows in R&D, design validation, and manufacturing environments. Technical Specifications Chassis Height: 4U Module Slots: Six USB modular product slots Power Supply: 200 W universal AC input Dimensions: 270.00 × 271.20 × 197.00 mm (10.63 × 10.68 × 7.76 in) Clocking: Internal 10 MHz reference clock per module slot; external 10 MHz reference clock input Connectivity: High-Speed USB 2.0 (USBTMC-USB488 standard); external trigger-in and trigger-out via BNC connectors Environmental Control: Dual temperature sensors, built-in fan with speed monitoring Key Features

Synchronization: Simultaneous Synchronization Interface with star trigger bus and dedicated trigger lines for precise inter-module and external signal coordination
Module Flexibility: Supports U2300 and U2500 Series DAQ devices plus USB modular instruments (digital multimeters, arbitrary waveform generators, oscilloscopes, source measure units)
Scalability: Expandable to 384 channels when populated with six U2331A Series modules
Hot-Swap Operation: Auto-detectable, hot-swappable modules minimize reconfiguration overhead
Thermal Management: Integrated fan and temperature monitoring maintain stable operating conditions
Typical Applications
Research and development workflows requiring multi-instrument synchronization
Design validation with coordinated measurements across multiple channels
Manufacturing test systems leveraging synchronized data acquisition
Compatibility & Integration
The U2781A integrates with Keysight VEE, MATLAB, NI LabVIEW, and Microsoft Visual Studio. Standard SCPI command support and Keysight Measurement Manager (KMM) software compatibility enable rapid test program development and deployment.
End of Life Notice: Production discontinues June 1, 2024. Standard 5-year support extends beyond discontinuation.

U2781A Characteristics / Specifications

PARAMETER	VALUE
Module Slots	6
Chassis Form Factor	4U class portable chassis
Power Supply	200 W universal AC
Chassis Dimensions WxDxH	270.00 × 271.20 × 197.00 mm
Module Slot Dimension WxDxH	25.40 × 174.54 × 105.00 mm
Weight	3.7 kg
Reference Clock Internal	10 MHz per slot
External Clock Input	10 MHz BNC
External Trigger In	BNC
Trigger Out	BNC
Cooling Fans	2
Fan Speed	3300 rpm plus or minus 10 percent
Fan Noise	37 dB(A)
Fan Power Each	2.52 W
USB Backplane Connector	55 pin Ethernet male typeCCompatible Series: U2300 U2500 U2600 USB modular instruments
Maximum Aggregate Channels Class	up to 384 with U2300 high density modules
Remote Interface Through Modules	Hi Speed USB 2.0
Temperature Sensors	2 internal
Operating Target	R andDdesign validation manufacturing
Rack Mount Option	Available
Power LED	ON OFF type
Simultaneous Sync Interface	SSI supported

U2781A Specifications

PARAMETER	VALUE
Agilent Keysight U2781A USB Modular Product Chassis	Overview
Six USB module slots	Internal 10 MHz reference per slot
SSI and Star trigger synchronization	200 W universal AC supply
Technical Specifications	Module Slots: 6
Notes	From Keysight USB Modular Products data sheet chassis section for U2781A.

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	
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Power LED	ON OFF type
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Notes	
From Keysight USB Modular Products data sheet chassis section for U2781A.	

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

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