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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight U1880A

Keysight U1880A Infiniium Power Measurement Application The Keysight U1880A is the Infiniium power-measurement application for switching-power-supply analysis on Infiniium oscilloscopes. OEM Infiniium power-app literature lists U1880A for automated input-power, switching-loss, output-ripple, SOA, and current-harmonic measurements using voltage and current probes on 9000/90000-class Infiniium scopes. SMPS characterization: switching loss, RDS(on), output ripple, power quality, and SOA on Infiniium. The Keysight U1880A is the Infiniium power-measurement application for switching-power-supply analysis on Infiniium oscilloscopes. OEM Infiniium power-app literature lists U1880A for automated input-power, switching-loss, output-ripple, SOA, and current-harmonic measurements using voltage and current probes on 9000/90000-class Infiniium scopes. SMPS characterization: switching loss, RDS(on), output ripple, power quality, and SOA on Infiniium. Switching-loss and conduction-loss measurements Works with AutoProbe voltage and current probes



MODEL

**Agilent / Keysight
U1880A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

U1880A

LISTING

<https://aumictechlabs.com/products/u1880a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight U1880A is a USB-powered deskew fixture that eliminates time-delay misalignment between voltage and current probes - a critical requirement for accurate instantaneous power measurements. By applying identical pulse signals to both probe channels, the fixture equalizes their propagation delays and establishes precise phase relationships. This probe deskewing

capability is essential when performing switching loss, safe operating area (SOA), and dynamic on-resistance measurements on power devices and circuits.

Technical Specifications

The U1880A operates as a passive deskewing instrument powered directly from a USB port on compatible oscilloscopes or personal computers. Deskew calibration can be performed manually via oscilloscope controls or automated through dedicated power measurement software. The fixture weighs 0.5 kg and is rated for indoor use only.

Key Features

- USB-powered operation - no external power supply required
- Direct oscilloscope integration via front-panel USB connectivity
- Manual deskew adjustment or software-assisted calibration
- Supports both current probes and differential active probes
- Compatible with wide range of probe specifications (2 MHz to 100 MHz bandwidth, 15 A to 500 A current ratings)

Typical Applications

The U1880A is deployed in power electronics characterization, particularly for applications requiring phase-accurate voltage and current measurements. Engineers rely on this fixture when quantifying instantaneous power dissipation, evaluating device switching losses, mapping safe operating area boundaries, and measuring dynamic on-resistance under transient conditions.

Compatibility & Integration

The fixture integrates with InfiniiVision 3000T, 4000X, 6000X, 5000, 6000, and 7000 Series oscilloscopes, as well as Infiniium S, 8000, and 9000 Series instruments. Automated deskew workflows require the U1881A Power Measurement application (InfiniiVision 5000/6000/7000 Series), the U1882A application (Infiniium 8000/9000 Series), or the U1882B application (Infiniium platforms). Current probes such as the 1147A, N2774A, N2782A, N2783A, N2780A, and N2781A are fully compatible with the deskewing process.

U1880A Characteristics / Specifications

PARAMETER	VALUE
Model	U1880A
Instrument Type	Infiniium power measurement application
Host Scopes	Infiniium 9000 and 90000 class
Measurements	input power, switching loss, output ripple, SOA
Probes	AutoProbe voltage and current probes
Manufacturer	Keysight Agilent
Form Factor	application license / software
Literature	Infiniium U1880A power measurement application
Use Case	SMPS analysis
Control	Infiniium application menu
Reports	automated test reports class
Harmonics	current harmonic analysis class
Inrush	inrush current class
Modulation	PWM switching analysis class
Deskew	probe deskew for power measurements
Safety	differential voltage probes for mains class
Related Current Probes	N2780 series with N2775A
Related Diff Probes	N2790 class
License	node/instrument license
Oscilloscope Channels	voltage and current channels
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications

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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Notes	
Identity from Keysight U1880A Infiniium Power Measurement Application listings. Numeric accuracy is that of the host Infiniium plus probes after deskew; U1880A is the measurement application.	

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.