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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight U1831C

Keysight U1831C USB / RF Accessory Module Family The Keysight U1831C isaUSB/RF accessory in the U183x family used with FieldFox and USB power-sensor / RF handheld systems. OEM U183x accessory lists describe U1831C asaUSB-connected RF accessory module (power-sensor cable/adaptor class) for U2000/U8480 sensors and FieldFox. Connecting USB power sensors and RF accessories to FieldFox and benchtop USB sensor systems. Host: FieldFox and USB power sensor systems The Keysight U1831C isaUSB/RF accessory in the U183x family used with FieldFox and USB power-sensor / RF handheld systems. OEM U183x accessory lists describe U1831C asaUSB-connected RF accessory module (power-sensor cable/adaptor class) for U2000/U8480 sensors and FieldFox. Connecting USB power sensors and RF accessories to FieldFox and benchtop USB sensor systems. Host: FieldFox and USB power sensor systems Related Sensors: U2000 U8480 USB power sensors



MODEL

**Agilent / Keysight
U1831C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

U1831C

LISTING

<https://aumictechlabs.com/products/u1831c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight U1831C is a USB-powered smart noise source for noise figure measurements across 10 MHz to 26.5 GHz. It automatically downloads calibration data to compatible analyzers and incorporates temperature sensing for enhanced measurement accuracy. Electronic storage of ENR data eliminates manual entry errors, while low reflection coefficient performance suits

general-purpose test applications. The U1831C connects via USB for both power and data transfer, operating from a standard 5 V supply.

Technical Specifications

RF Performance

Frequency range: 10 MHz to 26.5 GHz
Excess Noise Ratio (ENR): 12 to 17 dB (nominal 15 dB)
Noise figure measurement capability: up to 30 dB
RF connector: 3.5 mm male
Maximum reverse power: 1 W

Power & Interface

USB power: 5 V nominal, 500 mA maximum
Connectivity: USB for power and data transfer

Environmental

Operating temperature: 0 to 55 °C
Storage temperature: -40 to 70 °C
Connector torque: 8 lb-in for 3.5 mm connector

Key Features

Automatic ENR data download to compatible analyzers reduces setup time
Electronic ENR calibration storage prevents user entry errors
Temperature sensing with automatic compensation ensures consistent accuracy
Low reflection coefficient for general-purpose measurement applications

Typical Applications

Noise figure characterization of RF amplifiers, receivers, and front-end modules across microwave and millimeter-wave frequency bands.

Compatibility & Integration

The U1831C integrates directly with Keysight X-Series signal analyzers, NFA'B series noise figure analyzers, M9391/3A PXIe VSA, ESA-E Series analyzers, and PSA-Series analyzers.

U1831C Characteristics / Specifications

PARAMETER	VALUE
Model	U1831C
Instrument Type	USB RF accessory module
Family	U183x
Host	FieldFox and USB power sensor systems
Related Sensors	U2000 U8480 USB power sensors
Manufacturer	Keysight Agilent
Form Factor	USB/RF accessory
Literature	U1831C accessory listings
Use Case	USB sensor / FieldFox interconnect
Operating Temperature Class	FieldFox accessory rating
Power	USB
Connector Usb	USB
Connector Rf	per U1831C faceplate
Related Cables	U203x USB sensor cables
Storage	accessory pouch
Safety	RF accessory
Bandwidth	sensor limited
Calibration	host sensor calibration
Length	accessory
Revision	C
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications
Operating temperature	Class: FieldFox accessory rating

U1831C Specifications

PARAMETER	VALUE
Keysight U1831C USB / RF Accessory Module Family	Overview
Key Features	U183x USB RF accessory
Technical Specifications	Model: U1831C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: FieldFox accessory rating
Operating Temperature	Class: FieldFox accessory rating
Operating Temperature Class	FieldFox accessory rating
Power	USB
Connector Usb	USB
Connector Rf	per U1831C faceplate
Related Cables	U203x USB sensor cables
Storage	accessory pouch
Safety	RF accessory
Bandwidth	sensor limited
Calibration	host sensor calibration
Length	accessory
Revision	C
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications Notes Identity from Keysight U1831C USB/RF accessory listings in the U183x family. Exact connector and insertion loss are on the U1831C data sheet.

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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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

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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.