

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N7781C High Speed Polarization Analyzer

Application Class: polarization property analysis Fiber Input: single mode telecom fiber class Accessories: 81000xl connector interfaces Configuration Note: expand full option wavelength tables from N7781C OEM datasheet before denser upload if needed Fiber Input: single mode telecom fiber class Accessories: 81000xl connector interfaces Configuration Note: expand full option wavelength tables from N7781C OEM datasheet before denser upload if needed Numeric class rows from Keysight N7781C product literature summaries. Cross-check full option tables in the official N7781C datasheet before upload.



MODEL

**Agilent / Keysight
N7781C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N7781C

LISTING

<https://aumictechlabs.com/products/n7781c-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

Storage Temperature: -40 °C to +70 °C Relative Humidity: Maximum 85% RH, non-condensing
Altitude: Up to 2000 meters Air Clearance: Minimum 75 mm (3 inches) at the rear, 25 mm (1 inch) at each side

N7781C Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Polarization analyzer
Series Family	Keysight N7781C
Maximum Sampling Rate	1 MSamples/s
Wavelength Range Class	1240 nm to 1650 nm
Input Power Range	minus 50 dBm to plus 7 dBm
SOP Uncertainty Typical	1.5 degrees
DOP Uncertainty	plus or minus 2 percent typical plus or minus 1.5 percent
Analysis	state of polarization and degree of polarization
Display Class	Poincare sphere Stokes parameters
Predecessor	N7781B
Related Earlier Model	N7781A
Optical Connectors	straight or angled contact options class
Safe Input Power Class	limited per OEM max input rating
Relative Power Measurement	included with polarization analysis
Form Factor	compact benchtop
Use Stage	R&D manufacturing optical test
Calibration	on board algorithms plus user calibration
Remote	instrument automation interfaces
Application Class	polarization property analysis
Sampling Use	capture fast SOP changes
Fiber Input	single mode telecom fiber class
Environment	lab optical test conditions
Warm Up	allow thermal stability
Accessories	81000xl connector interfaces
Documentation	N7781C datasheet

PARAMETER

VALUE

Configuration Note

expand full option wavelength tables from N7781C OEM datasheet
before denser upload if needed

Wavelength range

Class: 1240 nm to 1650 nm

N7781C Specifications

PARAMETER	VALUE
Agilent Keysight N7781C High Speed Polarization Analyzer	Overview
Key Features	High speed polarization analysis to 1 MSa/s class
SOP and DOP with Stokes display	Successor to N7781B platform
Technical Specifications	Instrument Type: Polarization analyzer

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
Instrument Type	Polarization analyzer
Series Family	Keysight N7781C
Maximum Sampling Rate	1 MSamples/s
Wavelength Range Class	1240 nm to 1650 nm
Input Power Range	minus 50 dBm to plus 7 dBm
SOP Uncertainty Typical	1.5 degrees
DOP Uncertainty	plus or minus 2 percent typical plus or minus 1.5 percent
Analysis	state of polarization and degree of polarization
Display Class	Poincare sphere Stokes parameters
Predecessor	N7781B
Related Earlier Model	N7781A
Optical Connectors	straight or angled contact options class
Safe Input Power Class	limited per OEM max input rating
Relative Power Measurement	included with polarization analysis
Form Factor	compact benchtop
Use Stage	R&D manufacturing optical test
Calibration	on board algorithms plus user calibration
Remote	instrument automation interfaces
Application Class	polarization property analysis
Sampling Use	capture fast SOP changes
Fiber Input	single mode telecom fiber class
Environment	lab optical test conditions
Warm Up	allow thermal stability
Accessories	81000xI connector interfaces
Documentation	N7781C datasheet

PARAMETER	VALUE
Configuration Note	expand full option wavelength tables from N7781C OEM datasheet before denser upload if needed

Notes

Numeric class rows from Keysight N7781C product literature summaries. Cross-check full option tables in the official N7781C datasheet before upload.

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.