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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N7761A Single-Channel Variable Optical Attenuator

Agilent Keysight N7761A Variable Optical Attenuator 1 Channel The Agilent/Keysight N7761A is an N77 Series compact variable optical attenuator. OEM N77-Series datasheets specify 1260 nm to 1640 nm single-mode operation with 0 dB to 40 dB attenuation range (45 dB typical). Optical transceiver sensitivity testing, multiport component characterization, and optical network integration / ROADM span simulation. Remote controlled multi channel fiberoptic attenuator The Agilent/Keysight N7761A is an N77 Series compact variable optical attenuator. OEM N77-Series datasheets specify 1260 nm to 1640 nm single-mode operation with 0 dB to 40 dB attenuation range (45 dB typical). Optical transceiver sensitivity testing, multiport component characterization, and optical network integration / ROADM span simulation. Remote controlled multi channel fiberoptic attenuator Attenuation mode and closed loop power control mode



MODEL

**Agilent / Keysight
N7761A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N7761A

LISTING

<https://aumictechlabs.com/products/n7761a-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight N7761A is a single-channel variable optical attenuator designed for precise control of optical power in single-mode fiber applications. It integrates multiple functions, including attenuation setting and active power control, within a compact, half-width rack unit form factor,

contributing to reduced capital expenditure and optimized laboratory or production floor space. This instrument offers fast and precise power level adjustments, with settling times of 100 ms for power and 20 ms for attenuation, enhancing test throughput. Its ability to maintain constant output power through active power control is beneficial for automated test sequences. The N7761A supports remote control via LAN, USB, and GPIB interfaces, ensuring compatibility with existing test setups and control systems. It is also compatible with programs developed for legacy Keysight 8157x and 8156x modular attenuators. The inclusion of a user-friendly graphical user interface (GUI) software simplifies integration and operation. Technical Specifications *

Measurement Capability: * Settling Time: * Attenuation: 20 ms * Power: 100 ms * Attenuation Transition Speed: 0.1 to 1000 dB/s (selectable) * Maximum Input Power: +23 dBm * Insertion Loss: ≤ 1.2 dB Attenuation Range: 0 dB to 40 dB (45 dB typical) Wavelength Range: 1200 nm to 1700 nm or 1260 nm to 1640 nm Fiber Type: Single-Mode Fiber (SMF) Connector Interface: FC/PC straight (Option -021) Power Requirements: AC 100 - 240 V $\pm 10\%$, 50/60 Hz, 60 VA max Operating Altitude: Maximum 2000 m Pollution Degree: Designed for pollution degree 2 System Capability *

Form Factor: Single instrument in one half-width rack unit Legacy Compatibility: Fully compatible with programs developed using the Keysight 8157x and 8156x modular attenuators Control Interfaces: LAN, USB, and GPIB for remote control Software: Includes powerful and user-friendly GUI software Configuration Storage: Two instrument configurations can be stored and recalled Applications * Optical transceiver testing Optical network integration testing Why Choose Aumictech for Agilent/Keysight N7761A? At Aumictech, we specialize in supplying high-end optical test and measurement equipment. Whether you need precise attenuation control, enhanced test throughput, or seamless integration into automated test systems, our team ensures the Agilent/Keysight N7761A delivers maximum performance for your optical component and network testing applications.

N7761A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Variable optical attenuator
Series Family	Keysight N77 Series
Attenuator Channels	1
Fiber Type	9/125 um SMF 28
Wavelength Range	1260 nm to 1640 nm
Attenuation Range	0 dB to 40 dB (45 dB typical)
Attenuation Resolution	0.01 dB
Power Setting Range	minus 50 dBm to plus 20 dBm
Power Setting Resolution	0.01 dB
Relative Power Setting Accuracy	plus or minus 0.05 dB class
Attenuation Settling Time Typical	20 ms for 20 dB step
Power Settling Time Typical	100 ms
Insertion Loss Typical Excluding Connectors	1.2 dB or less at 1550 nm class
Insertion Loss Including Connectors	2.2 dB or less with reference connectors
Attenuation Transition Speed	selectable 0.1 to 1000 dB/s
Maximum Safe Input Power Input Port	plus 23 dBm
Maximum Safe Input Power Output Port	less than plus 18 dBm
Optical Path Blocking Typical	45 dB
Return Loss Typical	45 dB
Monitor Power Meter Relative Uncertainty	plus or minus 0.05 dB plus or minus 300 pW
Monitor Averaging Time	2 ms to 1 s
Connector Options	FC/PC Option 021 or FC/APC Option 022
Dimensions Class	1U half rack about 372 mm x 212 mm x 43 mm
Weight Approximate	3 kg

PARAMETER	VALUE
Line Power	AC 100 to 240 V plus or minus 10 percent 50/60 Hz 60 VA max
Remote Interfaces	LAN USB GPIB
Operating Temperature	plus 5 C to plus 40 C
Attenuation	Range: 0 dB to 40 dB (45 dB typical)
Return loss	Typical: 45 dB

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	plus 5 C to plus 40 C
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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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Remote Interfaces	LAN USB GPIB
Operating Temperature	plus 5 C to plus 40 C

Notes
Numeric rows from Agilent/Keysight N77-Series Attenuators datasheet for N7761A single-mode tables.

Ordering Information

OPTION	DESCRIPTION
Option 021	or FC/APC Option 022

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
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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.