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Data Sheet
August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N7762A Dual-Channel Variable Optical Attenuator

Agilent Keysight N7762A Variable Optical Attenuator 2 Channel The Agilent/Keysight N7762A 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 N7762A 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 N7762A**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **N7762A**	LISTING **https://aumictechlabs.com/products/n7762a-3/**

NIST-traceable cal · SAM registered · 30-day returns · NAICS 423690 · 811210 · 541380

This unit

The Keysight/Agilent N7762A is a two-channel variable optical attenuator designed for optical testing applications. As an extension of the N77xx-series, It has a compact, space-saving form factor within a half-width rack unit, integrating multiple functions for setting attenuation and

power levels. This instrument is engineered to enhance test throughput with fast and precise optical power level settings, featuring active power control to maintain a constant output. Its multichannel capability allows for simultaneous control of multiple ports, significantly reducing the time required for characterizing multiport and multichannel components and network equipment. The N7762A is fully compatible with programs developed for the Agilent 8157x and 8156x modular attenuators and can be controlled via LAN, USB, and GPIB interfaces, ensuring broad compatibility with existing test setups. It includes user-friendly GUI software for simplified integration and operation. Technical Specifications Measurement Capability: Settling Time: * 20 ms for attenuation transitions. * 100 ms for power level settings. Attenuation Transition Speed: Selectable, ranging from 0.1 to 1000 dB/s. Maximum Input Power: +23 dBm. Insertion Loss: Less than or equal to 1.2 dB. System Capability: Channels: Two attenuator channels. Form Factor: Occupies one half-width rack unit. Compatibility: Fully compatible with programs developed for Agilent/Keysight 8157x and 8156x modular attenuators. Software: Includes powerful and user-friendly GUI software. Configuration Storage: Capable of storing and recalling two instrument configurations. Interfaces: Control: LAN, USB, and GPIB for compatibility with existing equipment. Applications: Optical transceiver testing. Optical network integration testing. Physical Characteristics: Form Factor: Compact, half-width rack unit. Operating Environment: Refer to the Keysight N77xx Series User's Guide for specific operating and storage environment details, including temperature, humidity, and altitude. Compatibility: N77xx-Series: Extension of the N77xx-family, establishing a new standard in space-saving fiberoptic instrumentation. 8157x/8156x Series: Fully compatible with programs developed for these modular attenuators. Single-Mode Fiber: The N7761A, N7762A, and N7764A are single-mode fiber optical attenuators. Software and Documentation: N77 Viewer: Includes GUI software for operation. Programming Guides: Available for the N77-Series. User Manuals: Available for the Keysight N77xx Series. Data Sheets: Available for N77-Series Attenuators. Why Choose Aumictech for Keysight/Agilent N7762A? At Aumictech, we specialize in supplying high-end optical test and measurement equipment. Whether you need precise attenuation control, high-speed power level setting, or seamless integration into your existing test infrastructure, our team ensures the Keysight/Agilent N7762A delivers maximum performance for your application.

N7762A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Variable optical attenuator
Series Family	Keysight N77 Series
Attenuator Channels	2
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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Notes
Numeric rows from Agilent/Keysight N77-Series Attenuators datasheet for N7762A 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

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