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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N3940AA 1280 - 1650 nm Optical Switch Module

Agilent Keysight N3940AA 1×12 Optical Switch Module 1280 to 1650 nm The Agilent N3940AA is a 1×12 optical switch module that snaps onto the N3900A Modular Network Tester behind an N391x OTDR engine. OEM N3900A/N3914AL family data sheet lists 1280-1650 nm, 2.7 dB insertion loss, plus or minus 0.05 dB PDL, 40/50 dB return loss (PC/APC), 0.02 dB repeatability, 50 dB crosstalk, 100 ms port-to-port switching, and plus 23 dBm maximum optical input. Automated multi-fiber and ribbon-fiber OTDR qualification of up to 12 fibers with per-fiber wavelength, pulse-width, range, and averaging programs. The Agilent N3940AA is a 1×12 optical switch module that snaps onto the N3900A Modular Network Tester behind an N391x OTDR engine. OEM N3900A/N3914AL family data sheet lists 1280-1650 nm, 2.7 dB insertion loss, plus or minus 0.05 dB PDL, 40/50 dB return loss (PC/APC), 0.02 dB repeatability, 50 dB crosstalk, 100 ms port-to-port switching, and plus 23 dBm maximum optical input. Automated multi-fiber and ribbon-fiber OTDR qualification of up to 12 fibers with per-fiber wavelength, pulse-width, range, and averaging programs.



MODEL

**Agilent / Keysight
N3940AA**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N3940AA

LISTING

<https://aumictechlabs.com/products/n3940aa-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight N3940AA network analyzer offers a wide frequency range and advanced functionalities for comprehensive network analysis. Its solid design and intuitive interface facilitate seamless operation, making it an indispensable tool for engineers and technicians in research, development, and manufacturing environments.

Features & description

From manufacturer datasheet

Built-in multi-fiber test sequences up to 12 ports

Manual switch control from the Modular Network Tester Typical values specified at 1310, 1550 and 1625 nm 1 W module power consumption Technical Specifications Instrument Type: 1×12 optical switch module Host Platform: Agilent N3900A Modular Network Tester with N391x OTDR engines Configuration: 1×12 Wavelength Range: 1280 nm to 1650 nm Insertion Loss: 2.7 dB typical at 1310, 1550 and 1625 nm

Polarization Dependent Loss: plus or minus 0.05 dB

Return Loss Pc: 40 dB straight physical contact Return Loss Apc: 50 dB angled physical contact (max) Repeatability: 0.02 dB Crosstalk: 50 dB Switching Speed: 100 ms port to port Maximum Optical Input Power: 200 mW (plus 23 dBm max) Power Consumption: 1 W Operating Temperature: 0 C to 50 C Storage Temperature: minus 40 C to plus 60 C Height: 217 mm Width: 212 mm Depth: 33 mm Weight: 1.4 kg (3.1 lb) Typical Spec Wavelengths: 1310 nm, 1550 nm, 1625 nm Control: automatic multi-fiber test or manual from Modular Network Tester Settings Per Fiber: eight settings including wavelength, pulse width, range and averaging time Literature: Agilent N3900A / N3914AL Modular Network Tester family data sheet, N3940AA table Notes From Agilent N3900A Modular Network Tester / N3914AL family data sheet specification table N3940AA 1×12 Optical Switch. Typical optical values at 1310, 1550 and 1625 nm.

N3940AA Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	1×12 optical switch module
Host Platform	Agilent N3900A Modular Network Tester with N391x OTDR engines
Configuration	1×12
Wavelength Range	1280 nm to 1650 nm
Insertion Loss	2.7 dB typical at 1310, 1550 and 1625 nm
Polarization Dependent Loss	plus or minus 0.05 dB
Return Loss Pc	40 dB straight physical contact
Return Loss Apc	50 dB angled physical contact (max)
Repeatability	0.02 dB
Crosstalk	50 dB
Switching Speed	100 ms port to port
Maximum Optical Input Power	200 mW (plus 23 dBm max)
Power Consumption	1 W
Operating Temperature	0 C to 50 C
Storage Temperature	minus 40 C to plus 60 C
Height	217 mm
Width	212 mm
Depth	33 mm
Weight	1.4 kg (3.1 lb)
Typical Spec Wavelengths	1310 nm, 1550 nm, 1625 nm
Control	automatic multi-fiber test or manual from Modular Network Tester
Settings Per Fiber	eight settings including wavelength, pulse width, range and averaging time
Literature	Agilent N3900A / N3914AL Modular Network Tester family data sheet, N3940AA table
Return loss	Pc: 40 dB straight physical contact

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to plus 60 C
Operating temperature	0 C to 50 C
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Height	217 mm
Width	212 mm
Depth	33 mm
Weight	1.4 kg (3.1 lb)
Typical Spec Wavelengths	1310 nm, 1550 nm, 1625 nm
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Literature	Agilent N3900A / N3914AL Modular Network Tester family data sheet, N3940AA table Notes From Agilent N3900A Modular Network Tester / N3914AL family data sheet specification table N3940AA 1×12 Optical Switch. Typical optical values at 1310, 1550 and 1625 nm.

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

From Agilent N3900A Modular Network Tester / N3914AL family data sheet specification table N3940AA 1x12 Optical Switch. Typical optical values at 1310, 1550 and 1625 nm.

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
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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.