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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight N7714A Four-Port Tunable Laser System Source

Form Factor: one rack unit, half 19 inch width Remote Interfaces: USB 2.0, LAN 10/100 Mbit/s, GPIB Recommended Recalibration Period: 24 months Numeric rows from Agilent N7711A, N7714A Tunable Laser Sources data sheet 5990-5512EN. Per-port optical specs match N7711A. Remote Interfaces: USB 2.0, LAN 10/100 Mbit/s, GPIB Recommended Recalibration Period: 24 months Numeric rows from Agilent N7711A, N7714A Tunable Laser Sources data sheet 5990-5512EN. Per-port optical specs match N7711A.



MODEL

**Agilent / Keysight
N7714A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N7714A

LISTING

<https://aumictechlabs.com/products/n7714a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N7714A is a four-port tunable laser system source engineered for optical testing and measurement. It delivers precise wavelength control, exceptional frequency stability, and flexible grid options across C-band or L-band configurations. The instrument supports gridless tuning, ITU-T standard grids (100 GHz, 50 GHz, 25 GHz), and arbitrary wavelength grids with offset-grid tuning capability greater than ± 6 GHz. A 12 GHz fine-tuning range permits frequency adjustment without output interruption. With typical linewidth under 100 kHz, absolute wavelength accuracy of ± 22 pm (± 2.5 GHz), and wavelength stability of ± 2.5 pm (± 0.3 GHz) over 24 hours, the N7714A suits advanced research, system development, and realistic optical transmission loading. Its

compact 1U half-width form factor (43 mm × 212 mm × 372 mm, 3.8 kg) enables high-density test configurations.

Technical Specifications

Optical Output Maximum output power: $\geq +15$ dBm typical
Power adjustment range: 8 dB Power stability: ± 0.03 dB over 24 hours; ± 0.03 dB over 1 hour
Power flatness: ± 0.2 dB across full wavelength range Power repeatability: ± 0.08 dB Residual output power (shutter closed): ≤ -45 dBm Fine tuning resolution: 1 MHz typical Tuning time: < 30 seconds typical Spectral Quality Side mode suppression ratio (SMSR): 50 dB typical Source spontaneous emission (SSE): 50 dB/nm; 60 dB/0.1 nm Relative intensity noise (RIN): -145 dB/Hz (10 MHz to 40 GHz) Polarization extinction ratio: 16 dB typical Output isolation: 30 dB typical

Wavelength Performance Absolute accuracy: ± 22 pm (± 2.5 GHz) Relative accuracy: ± 12 pm (± 1.5 GHz) Repeatability: ± 2.5 pm (± 0.3 GHz) Stability over 1 minute: ± 0.5 pm

Physical & Environmental Form factor: 1U rack height, $\frac{1}{2}$ 19-inch width Warm-up time: 1 hour for full specification Fiber type: 9/125 μm Panda polarization-maintaining

Key Features Four independent optical ports C-band or L-band options with seamless wavelength coverage SBS suppression with FM p-p modulation (0 to 1 GHz) at 20.8 kHz dither frequency Immediate operation after boot-up

Typical Applications Optical transmission system characterization and validation Multi-wavelength testing and measurement Research and development in fiber-optic systems System integration requiring multiple independent laser sources

Compatibility & Integration Compact footprint and multiple ports support high-density test rack configurations. Polarization-maintaining fiber outputs enable integration with systems requiring controlled polarization states.

N7714A Characteristics / Specifications

PARAMETER	VALUE
Model	N7714A
Instrument Type	Four port tunable laser source
Series Family	Keysight N77 optical test instruments
Optical Ports	4
Wavelength RangeCBand Options	1527.60 nm to 1565.50 nm (196.25 THz to 191.50 THz)
Wavelength RangeLBand Options	1570.01 nm to 1608.76 nm (190.95 THz to 186.35 THz)
Port Mix Option 2	2 C-band lasers and 2 L-band lasers
Fine Tuning Range Typical	±6 GHz typical
Fine Tuning Resolution Typical	1 MHz typical
Absolute Wavelength Accuracy	±22 pm (±2.5 GHz)
Relative Wavelength Accuracy	±12 pm (±1.5 GHz)
Wavelength Repeatability Typical	±2.5 pm typical (±0.3 GHz)
Wavelength Stability Typical 24 Hours	±2.5 pm typical, 24 hours
Tuning Time Typical	less than 30 s typical
Maximum Output Power	+13.5 dBm (typical +15 dBm) per port
Power Stability Typical 24 Hours	±0.03 dB typical over 24 hours
Power Flatness Typical	±0.2 dB typical, full wavelength range
Linewidth Typical Sbs Off	less than 100 kHz typical
Smsr Typical	50 dB typical
Rin Typical	minus 145 dB/Hz typical, 10 MHz to 40 GHz
Power Attenuation Range	8 dB
Fiber Type	9/125 um Panda PMF
Operating Temperature	+10 C to +35 C
Form Factor	one rack unit, half 19 inch width
Dimensions	43 mm x 212 mm x 372 mm

PARAMETER	VALUE
Weight	3.8 kg
Remote Interfaces	USB 2.0, LAN 10/100 Mbit/s, GPIB
Recommended Recalibration Period	24 months
Wavelength range	Linewidth Typical Sbs Off: less than 100 kHz typical
Wavelength repeatability	Typical: ± 2.5 pm typical (± 0.3 GHz)
Wavelength stability	Typical 24 Hours: ± 2.5 pm typical, 24 hours
Linewidth	Typical Sbs Off: less than 100 kHz typical
Attenuation	Range: 8 dB
Power stability	Typical 24 Hours: ± 0.03 dB typical over 24 hours

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	+10 C to +35 C
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Form Factor	one rack unit, half 19 inch width
Dimensions	43 mm x 212 mm x 372 mm
Weight	3.8 kg
Remote Interfaces	USB 2.0, LAN 10/100 Mbit/s, GPIB
Recommended Recalibration Period	24 months Notes Numeric rows from Agilent N7711A, N7714A Tunable Laser Sources data sheet 5990-5512EN. Per-port optical specs match N7711A.

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 as N7711A, with Option 240 (4 C-band), Option 204 (4 L-band), or Option 222 (2 C plus 2 L).

Applications

Multi-channel WDM system loading; simultaneous C- and L-band stimulus; coherent transmission experiments needing several independent narrow-linewidth sources.

Key Features

Four independently settable laser ports in one 1U half-rack box

Flexible C/L mix on Option 222

Same ITU-grid, fine-tune, and +15 dBm typical power as N7711A

Panda PMF on every port

LAN USB GPIB remote control

Technical Specifications

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Model	N7714A
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Wavelength RangeLBand Options	1570.01 nm to 1608.76 nm (190.95 THz to 186.35 THz)
Port Mix Option 240	4 C-band lasers
Port Mix Option 204	4 L-band lasers
Port Mix Option 222	2 C-band lasers and 2 L-band lasers
Fine Tuning Range Typical	±6 GHz typical
Fine Tuning Resolution Typical	1 MHz typical
Absolute Wavelength Accuracy	±22 pm (±2.5 GHz)
Relative Wavelength Accuracy	±12 pm (±1.5 GHz)
Wavelength Repeatability Typical	±2.5 pm typical (±0.3 GHz)
Wavelength Stability Typical 24 Hours	±2.5 pm typical, 24 hours
Tuning Time Typical	less than 30 s typical
Maximum Output Power	+13.5 dBm (typical +15 dBm) per port
Power Stability Typical 24 Hours	±0.03 dB typical over 24 hours
Power Flatness Typical	±0.2 dB typical, full wavelength range
Linewidth Typical Sbs Off	less than 100 kHz typical

PARAMETER	VALUE
Smsr Typical	50 dB typical
Rin Typical	minus 145 dB/Hz typical, 10 MHz to 40 GHz
Power Attenuation Range	8 dB
Fiber Type	9/125 um Panda PMF
Operating Temperature	+10 C to +35 C
Form Factor	one rack unit, half 19 inch width
Dimensions	43 mm x 212 mm x 372 mm
Weight	3.8 kg
Remote Interfaces	USB 2.0, LAN 10/100 Mbit/s, GPIB
Recommended Recalibration Period	24 months

Notes

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Ordering Information

OPTION	DESCRIPTION
Option 240	(4 C-band), Option 204 (4 L-band), or Option 222 (2 C plus 2 L).
Option 222	Same ITU-grid, fine-tune, and +15 dBm typical power as N7711A

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

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NIST-traceable calibration · SAM registered ·
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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.