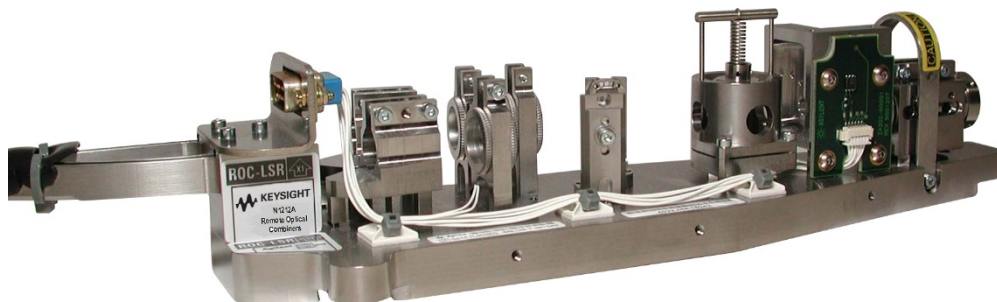


# N1211A/B and N1212A/B Fiber AOM Laser Head and Remote Optical Combiners (ROC)

Keysight's Technologies, Inc. acousto-optic modulated (AOM) laser head and remote optical combiner (ROC) delivers high-power and high-split frequency laser output to support multi-axis and high-speed stage interferometry applications. The ROC is available with a 6 mm (N1212A) or a 9 mm (N1212B) visible beam diameter. This is a Class II Laser Product conforming to U.S. National Center for Devices and Radiological Health Regulations 21 CFR 1040.10 and 1040.11.



N1212A/B remote optical combiner



N1211A/B AOM laser



## Key features

- High-stability laser enables high-precision measurements
- High-power beam and high-split frequency support multi-axis and high-speed applications
- The ROC's passive component design results in low heat generation that is ideal for thermally sensitive applications
- 10 m optical interconnect between the ROC and the AOM provides flexibility in layout design
- The air-cooled AOM laser head does not require water cooling system

## Key Specifications

### Fiber AOM laser head

Model	Laser, wavelength	Output	Stability <sup>1</sup>	Output power at ROC	Split frequency
N1211A	HeNe Class 2, 633 nm	Continuous	± 5 ppb/5 minutes typical	> 275 uW; < 1 mW	15 MHz to 17 MHz
N1211B	HeNe Class 2, 633 nm	Continuous	± 0.5 ppb/2 minutes typical	> 275 uW; < 1 mW	15 MHz to 17 MHz

1. Contact Keysight for more detail.

### Remote optical combiners (ROC)

Model	Visible beam	Nominal beam size	Beam cone angle tolerance	Polarizing surface angle tolerance	Heat dissipation
N1212A	6 mm	5.0 ± 0.5 mm, 1/e <sup>2</sup>	± 3 mrad	± 0.5 °	< 10 mW typical
N1212B	9 mm	7.5 ± 0.5 mm, 1/e <sup>2</sup>	± 3 mrad	± 0.5 °	< 10 mW typical

### Accessories and related products

Model	Description
N1211A-001	ROC cable -6.7 m
N1211A-002	ROC cable - 10 m
N1211A/B-101	Users guide
Z4205T	ROC fiber launcher adjusting tool
N1225A	VME 4-channel high-resolution laser axis board
N1225A-200	Non-linearity compensation
E1826E	One-axis plane mirror interferometer, right turn configuration

For more details on Keysight interferometry systems, components and ordering information please visit [www.keysight.com/find/lasers](http://www.keysight.com/find/lasers)

Learn more at: [www.keysight.com](http://www.keysight.com)

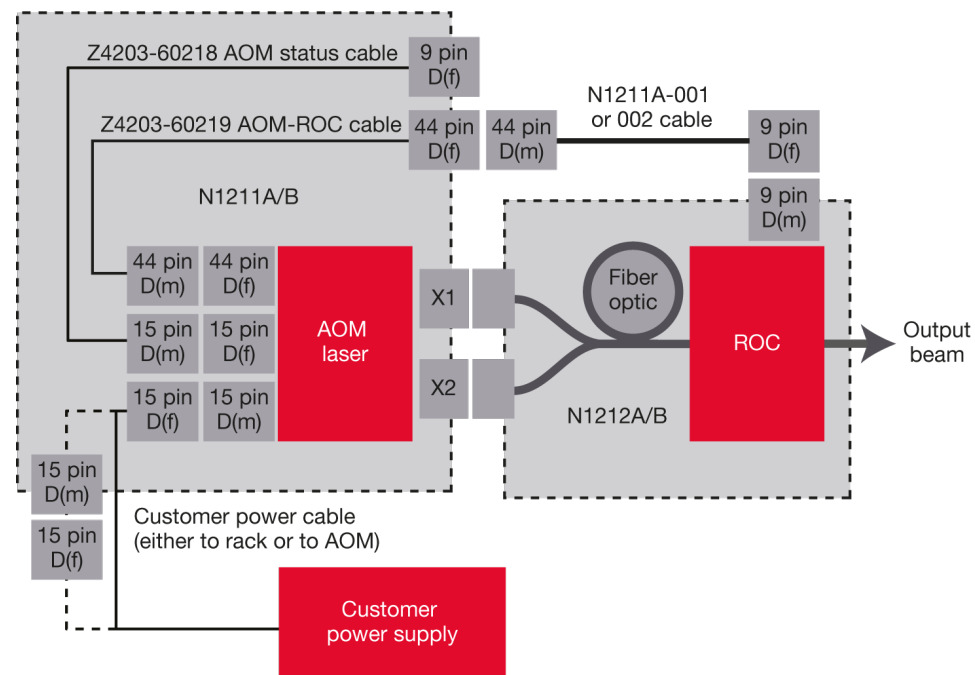


Figure 1. Block diagram of the AOM and ROC

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