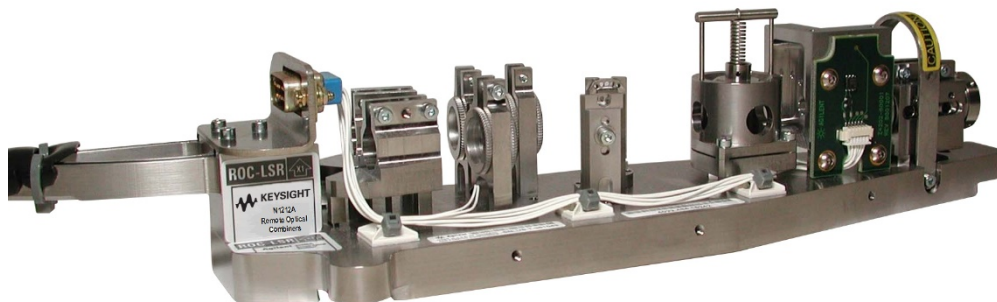


N1211A/B and N1212A/B Fiber AOM Laser Head and Remote Optical Combiners (ROC)

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 ¹	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 ²	± 3 mrad	± 0.5 °	< 10 mW typical
N1212B	9 mm	7.5 ± 0.5 mm, 1/e ²	± 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

Learn more at: www.keysight.com

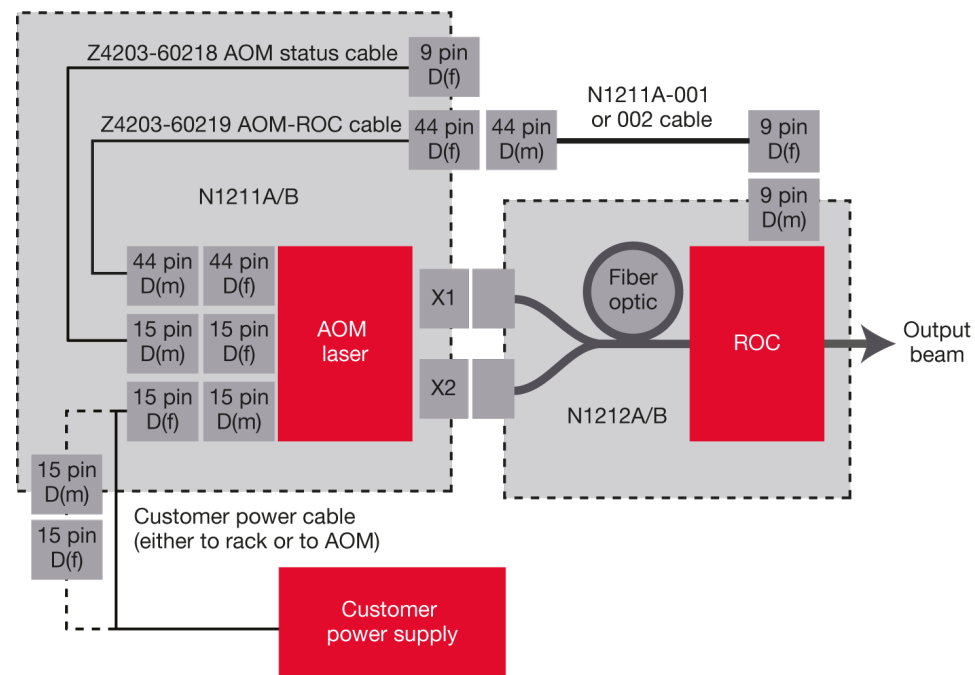


Figure 1. Block diagram of the AOM and ROC

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