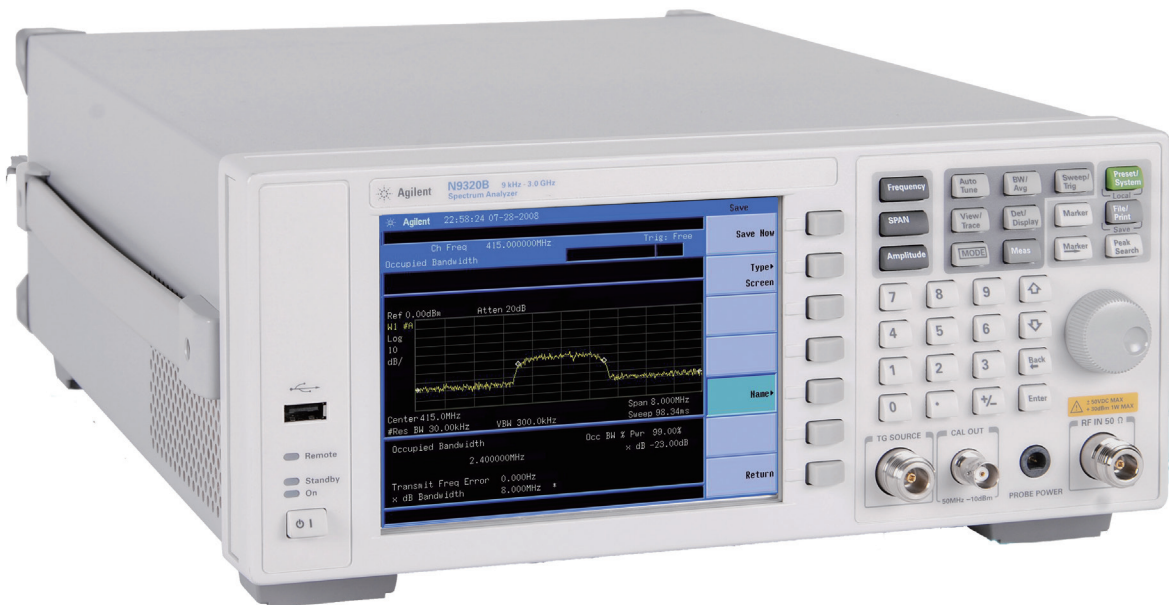


Agilent N9320B RF Spectrum Analyzer

Configuration Guide

This configuration guide will help you determine the options, accessories, and services to include with your new N9320B RF spectrum analyzer or to add as upgrades to an existing N9320B.



Agilent Technologies

Configure Your Agilent N9320B RF Spectrum Analyzer

N9320B is a general purpose spectrum analyzer from 9 kHz to 3 GHz. Its standard features include:

- Frequency power measurements
- One-button power suite, auto tune, and frequency counter
- AM/FM tune and listen
- 12 markers, 4 traces, and 2 customer-definable limit lines
- U2000 Series USB power sensor support
- USB and LAN connectivity

This step-by-step process will help you to configure your N9320B RF spectrum analyzer by tailoring its options to meet your requirements.

For detailed specifications, refer to the N9320B spectrum analyzer data sheet (5990-8119EN). For a product overview, refer to the N9320B spectrum analyzer brochure (5990-8118EN).

Ordering information

| Description | Model number | Additional information |
|--|--------------|---|
| RF spectrum analyzer, 9 kHz to 3.0 GHz | N9320B | Accessories supplied as standard with each analyzer: Quick Start Guide, USB cable, N-BNC adapter, BNC cable, power cord, and documentation CD-ROM |

| Description | Option number | Additional information |
|-----------------------------------|---------------|--|
| Step 1. Add a preamplifier | | |
| Preamplifier, 3.0 GHz | N9320B-PA3 | Preamplifier improves the noise floor for low-level signal detection |

| Step 2. Add modulation analysis capability | | |
|---|------------|--|
| AM and FM demodulation metrics | N9320B-AMA | Provides modulation metrics of an AM or FM signal: Carrier power, modulation rate, AM depth, frequency deviation, SINAD ¹ , and carrier frequency offset |
| ASK and FSK demodulation metrics | N9320B-DMA | Provides modulation metrics of an ASK or FSK signal: Carrier power, ASK error, depth, and index, FSK deviation, FSK error, magnitude error, and carrier frequency offset |

1. *Signal-to-noise and distortion ratio*

| Step 3. Add scalar stimulus-response measurement capability | | |
|--|------------|--|
| Tracking generator, 100 kHz to 3.0 GHz | N9320B-TG3 | A cost-effective method to measure transmission characters of RF devices. An external bridge or a directional coupler needs to be added to implement reflection measurements |

| Step 4. Add optional features | | |
|--|------------|---|
| Resolution bandwidth (–6 dB): 200 Hz, 9 kHz, 120 kHz, and 1 MHz | N9320B-EMF | Provides optional CISPR16-1-1 EMI filters for preliminary EMI pre-compliance measurements |
| GPIB interface | N9320B-G01 | IEEE-488 bus connector, used in test automation systems |
| Customized save-last utility | N9320B-C20 | N9320B automatically saves its settings and status once any changes are made. After the power cycle, the N9320B recovers the prior setups before powering off |
| Instrument power-on utility at AC power cycle | N9320B-C30 | N9320B powers on directly at AC power cycle without the user pushing the power-on button on the unit's front panel. A solution designed for test automation systems |

Configure Your Agilent N9320B RF Spectrum Analyzer (continued)

| Description | Option number | Additional information |
|---|---------------|---|
| Step 5. Add optional accessories | | |
| RF training kit | N9320B-TR1 | Consists of RF transceiver and a full set of pre-written courseware. Prepared for RF teaching labs or training agencies |
| Hard transit case (d x w x h) | N9320B-1TC | <ul style="list-style-type: none"> 645 x 444 x 268 mm, 13 kg nominal 25.4 x 17.5 x 10.6 in, 29 lb nominal |
| Rack mount kit | N9320B-1CM | Includes a rackmount flange and front handle kit. Fits standard 19-inch rack and occupies three units of rack space |
| Handle and bumper | N9320B-1HB | Available for ordering only at time of initial instrument purchase |

Need more RF and microwave accessories? Visit www.agilent.com/find/accessories

| | | |
|--|------------|--|
| Step 6. Choose localized User's Guide | | |
| English User's Guide | N9320B-ABA | |
| Simplified Chinese User's Guide | N9320B-AB2 | |
| Japanese User's Guide | N9320B-ABJ | |

| | | |
|--|--------------|---|
| Step 7. Choose warranty length | | |
| Select coverage | | |
| 3-year warranty (return to Agilent), standard | Included | 3-year warranty (return to Agilent), standard |
| 5-year warranty assurance plan (return to Agilent) | R-51B-001-5Z | Priority warranty service includes one-time coverage for an EOS/ESD failure |

| | | |
|--|-------------|---|
| Step 8. Add calibration, technical training, support, and upgrade | | |
| Commercial calibration certificate with test data | N9320B-UK6 | Calibration certificate only available at time of instrument purchase; only provides measurement results |
| Select Agilent Calibration Plan | | |
| 3-year calibration assurance plan (return to Agilent) | R-50C-011-3 | Priority calibration service covering all calibration costs for 3 years; 15% cheaper than buying stand-alone calibrations |
| 5-year calibration assurance plan (return to Agilent) | R-50C-011-5 | Priority calibration service covering all calibration costs for 5 years; 20% cheaper than buying stand-alone calibrations |

Other calibration options may available, for more information on calibration, go to: www.agilent.com/find/calibration

For more information on training and application support services, go to: www.agilent.com/find/training

Instrument Upgrades

Most of the Agilent N9320B RF spectrum analyzer options are available for post-sales retrofit.

For license-key upgrades that do not require additional hardware:

1. Place an order for the upgrade with Agilent and request to receive the software entitlement certificate through email
2. Install the license key in the N9320B. Upgrade firmware to the latest revision if required
3. Restart the N9320B
4. Begin using the new capability

| Description | Upgrade number | Additional information |
|---|----------------|---|
| Add preamplifier, 3.0 GHz | N9320BK-PA3 | |
| Add AM/FM demodulation metrics | N9320BK-AMA | |
| Add ASK/FSK demodulation metrics | N9320BK-DMA | |
| Add tracking generator, 100 kHz to 3.0 GHz | N9320BK-TG3 | The tracking generator is additional hardware that is installed inside the N9320B. Upgrade is performed at Agilent's local service center |
| Add GPIB interface | N9320BK-G01 | Requires additional hardware be installed inside the N9320B. |
| Add EMC filter (-6 dB down) | N9320BK-EMF | |
| Add RF training kit | N9320BK-TR1 | |
| Add hard transit case | N9320BK-1TC | |
| Add rack mount kit | N9320BK-1CM | |
| Add customized save-last utility | N9320BK-C20 | |
| Add instrument power-on utility at AC power cycle | N9320BK-C30 | Upgrade performed at Agilent's local service center |
| Revision to current | N9320BK-R2C | Enables the latest feature set for the instrument |

A comprehensive summary about the N9320B upgrades is also available at: www.agilent.com/find/n9320b_upgrade

Related Literature

| Publication | |
|--------------------|--|
| Publication number | Publication title |
| 5990-8116EN | Agilent N9310A RF Signal Generator, Data Sheet |

Other Information

Agilent product registration

Register your instruments for service notifications, firmware update alerts, application notes and more. You have the Agilent edge. Register today and keep it sharp: www.agilent.com/find/register

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A personalized view into the information most relevant to you.



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For other unlisted countries:

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