Agilent N9320B RF Spectrum Analyzer

Best-in-class performance, practical value

1. Standard LAN and USB connectivity
2. 6.5” color display with multi-language UI
3. Smart auto-tune automatically centers the signal
4. One-button power measurement
5. RF IN (Type-N female)
6. Probe power for high-impedance AC probes
7. CAL Out (BNC type, Female)
8. TG source output (Type-N female), requires Option TG3
9. Compact design (H x W x D): 132.5 x 320 x 400 mm (5.2 x 12.6 x 15.7 in)
10. Option 1HB provides additional protection to the instrument

Agilent N9320B features maximize your productivity, minimize your cost

Professional performance secures your confidence in spectrum analysis
• Frequency range: 9 kHz to 3 GHz
• Minimum non-zero span sweep time: 10 ms
• Resolution bandwidth: 10 Hz to 1 MHz
• DANL: -148 dBm with preamp on
• Overall amplitude accuracy: ±0.5 dB typical

Cost-effective tool for automated test projects
• SCPI remote command set complies with IEEE488.2
• Remote language compatibility with Agilent ESA-L Series spectrum analyzer and N9320A
• LAN, USB, and GPIB connectivity

Robust measurement features ensures your flexibility in RF tests
• One-button auto-tune quickly centers and reads out frequency and amplitude of the largest peak
• AM/FM tune and listen
• AM/FM, ASK/FSK demodulation analysis
• EMI filter (-6 dB): 200 Hz, 9 kHz, 120 kHz, 1 MHz

Accessibility and easy-of-use at your finger tips
• Multi-language graphic user interface
• Free remote control PC software
• Standard USB and LAN connectivity
• Customized power-on utility
## Quick Fact Sheet

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<th>Application</th>
<th>Test case</th>
<th>Performance requirements</th>
<th>Agilent N9320B performance</th>
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| Transmitter | Tx power and frequency | • High measurement accuracy  
• Fast measurement speed | • Overall amplitude accuracy ±0.5 dB typical  
• 10 ms non-zero span sweep time |
| Mixer/filter test | Distortion  
Dynamic range | • High sensitivity  
Wide dynamic range | -148 dBm DANL with preamp  
MDR 3 > 80 dB |
| Amplifier test | IP3, 1 dB compression | High TOI and 1 dB compression | • TOI: +13 dBm  
• 1 dB compression: +0 dBm |
| Mixer/filter test | Insertion loss, frequency response | Good frequency response and amplitude measurement accuracy | • Frequency response: ±0.8 dB  
• Overall amplitude accuracy ±0.5 dB typical |
| Interference monitor | Low level signal detecting | High sensitivity | -148 dBm DANL with preamp |
| Spurious emission | Spurious emission, radiation | Fast speed, high sensitivity | • 10 ms non-zero span sweep time  
• -148 dBm DANL with preamp |

### Model

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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<tr>
<td>N9320B</td>
<td>3 GHz RF spectrum analyzer</td>
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### Options

<table>
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<th>Options</th>
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<tr>
<td>N9320B-PA3</td>
<td>3 GHz preamplifier</td>
</tr>
<tr>
<td>N9320B-TG3</td>
<td>3 GHz tracking generator</td>
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<td>N9320B-G01</td>
<td>GPIB interface</td>
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<td>N9320B-AMA</td>
<td>AM/FM demodulation metrics</td>
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<td>N9320B-TR1</td>
<td>RF training kit</td>
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<tr>
<td>N9320B-1HB</td>
<td>Handle and bumper</td>
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<td>N9320B-1CM</td>
<td>Rack mount kit</td>
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<td>N9320B-1TC</td>
<td>Hard transit case</td>
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<td>N9320B-EMF</td>
<td>EMI filter</td>
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<tr>
<td>N9320B-DMA</td>
<td>ASK/FSK demodulation metrics</td>
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### Accessories shipped with each N9320B spectrum analyzer

- Quick start guide
- Documentation CD-ROM
- USB cable (A-B)
- N-BNC adapter
- BNC cable
- Power cord

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Technical data, availability, and pricing subject to change without notice.  
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