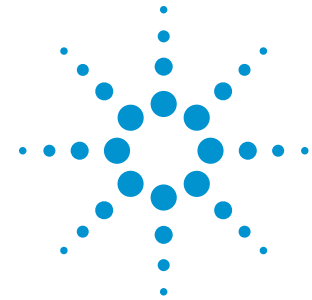


# Agilent N9342C 7 GHz Handheld Spectrum Analyzer

If you are making measurements in the field, the Agilent N9342C handheld spectrum analyzer (HSA) makes your job easier. It's got the features you need for operating in tough field environments, and its measurement performance gives you confidence the job's been done right. The N9342C HSA let you automate routine tasks to save time and ensure consistent results. Field testing just got easier with the Agilent N9342C HSA.



## Field testing just got easier



### Get the features you need in a field-ready instrument:

- Rugged and fanless design for tough field environments.
- Clear screen viewing, day and night.
- Built-in GPS receiver and GPS antenna.
- Dedicated applications for spectrum monitoring and interference analysis.
- Flexible remote control via USB/LAN.

### Gain confidence in your measurements with benchtop performance in a handheld instrument:

- Best-in-class RF performance (-164 dBm/Hz DANL, < 0.4 s sweep time for 7 GHz full span).
- Powerful one-button measurements, built-in tracking generator, AM/FM modulation analysis and time-gated sweep.
- High-accuracy power measurements with Agilent USB power sensors.

Innovative **task planner**: [www.agilent.com/find/taskplanner](http://www.agilent.com/find/taskplanner) reduces test setup time by 95%, delivers test automation and consistency, and makes it easy to capture test results, generate reports and share task plans with others.



# Quick Fact Sheet

## Key specifications

| Specification   | Description   |
|---|---|
| Frequency range   | 100 kHz to 7 GHz (tunable to 9 kHz)                                     |
| Displayed average noise level (DANL) @ 500 MHz/3 GHz/6 GHz, normalized to 1 Hz, typical | -146 dBm/-144 dBm/-142 dBm, PA OFF<br>-164 dBm/-161 dBm/-158 dBm, PA ON |
| RBW range   | 10 Hz to 3 MHz (1-3-10 steps)   |
| TOI @ 6 GHz   | +10 dBm   |
| Phase noise, typical  | -89 dBc/Hz @ 30 kHz<br>-117 dBc/Hz @ 1 MHz                              |
| Sweep speed   | 2 ms to 1000 s, span ≥ 100 Hz<br>600 ns to 200 s, span = 0 Hz           |
| Amplitude accuracy  | ± 1.3 dB  |
| Dimension   | 318 mm x 207 mm x 69 mm<br>(12.5 inch x 8.15 inch x 2.7 inch)           |
| Weight  | 3.6 kg (7.9 lbs)  |
| Battery   | 4 hours, field replaceable  |

## Option

| Item   | Description   | Upgradability     |
|--------|---|-------------------|
| N9342C | Handheld spectrum analyzer, 100 kHz to 7 GHz          | N/A               |
| PA7    | Preamplifier, 7 GHz                                   | Yes, license      |
| TG7    | Tracking generator, 7 GHz                             | Yes, H/W+ license |
| SIM    | Spectrum monitor with spectrogram record and playback | Yes, license      |
| GPS    | GPS receiver with built-in GPS antenna                | Yes, license      |
| TPN    | Task planner for test automation                      | Yes, license      |
| PWM    | USB power sensor support                              | Yes, license      |
| SEC    | Secure erase of user data                             | Yes, license      |
| TMG    | Time-gated spectrum analysis                          | Yes, license      |
| AMA    | AM/FM modulation analysis                             | Yes, license      |

## Accessories



**N9311X-518**  
directional antenna



**N9342C-SCC**  
ergonomic backpack



**N9342C-BCG**  
external battery charger\*  
\* Batteries not included.



**N9342C-BAT**  
spare battery pack



**N9342C-1DN**  
Automotive 12V DC charger



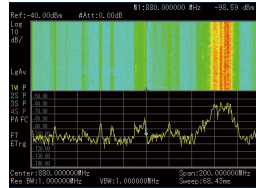
**N9342C-1TC**  
Hard transit case

More accessories at [www.agilent.com/find/n9311X](http://www.agilent.com/find/n9311X)

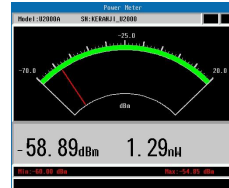
## Powerful measurement features



**Built-in GPS receiver and GPS antenna (option GPS)**



**Spectrum Monitor (option SIM)**



**Agilent U2000 Series USB power sensor support (option PWM)**



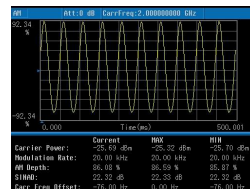
**Task planner for routine test automation (option TPN)**



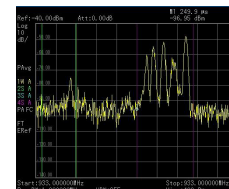
**Measuring two-port transmission with tracking generator (option TG7)**



**Erase user memory for security purpose (option SEC)**



**AM/FM modulation analysis (option AMA)**



**Time-gated spectrum analysis (option TMG)**

## Recommended service options

Additional two years of Return-to-Agilent warranty  
Additional two years of Return-to-Agilent calibrations  
For more information go to [www.agilent.com/find/removealldoubt](http://www.agilent.com/find/removealldoubt)