

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 lets 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).
- Cable and antenna test with built-in VSWR bridge.
- Power suite, built-in tracking generator, AM/FM/ASK/FSK modulation analysis, and time-gated sweep.
- High-accuracy power measurements with Agilent USB power sensors.

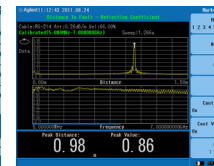
Innovative **task planner** reduces test setup time by 95%, delivers test automation and consistency, and makes it easy to capture test results, generate reports and share task plans with others.

www.agilent.com/find/taskplanner

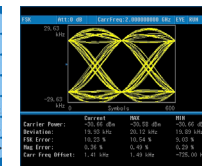
Powerful measurement features



New! Channel scanner (Option SCN)



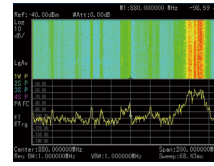
New! Cable and antenna test (Option CA7)



New! ASK/FSK modulation analysis (Option DMA)



Built-in GPS receiver and GPS antenna (Option GPS)



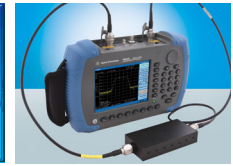
Spectrum monitor (Option SIM)



Agilent U2000 Series USB power sensor support (Option PWM)



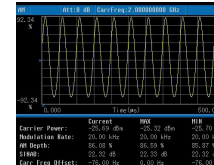
Task planner for routine test automation (Option TPN)



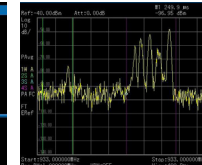
Measuring two-port transmission with tracking generator (Option TG7)



Erase user memory for security purpose (Option SEC)



AM/FM modulation analysis (Option AMA)



Time-gated spectrum analysis (Option TMG)



Quick Fact Sheet

Key specifications

Specification	Description
Frequency range	100 kHz to 7 GHz (tunable to 9 kHz)
Displayed average noise level (DANL) at 500 MHz/3 GHz/6 GHz, normalized to 1 Hz, typical	-146 dBm/-144 dBm/-142 dBm, PA OFF -164 dBm/-161 dBm/-158 dBm, PA ON
RBW range	10 Hz to 3 MHz (1-3-10 steps)
TOI at 6 GHz	+10 dBm
Phase noise, typical	-89 dBc/Hz at 30 kHz -117 dBc/Hz at 1 MHz
Sweep speed	2 ms to 1000 s, span ≥ 100 Hz 600 ns to 200 s, span = 0 Hz
Amplitude accuracy	± 1.3 dB
Dimension	318 mm x 207 mm x 69 mm (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
New! DMA	ASK/FSK modulation analysis	Yes, license
New! SCN	Channel scanner	Yes, license
New! CA7*	Cable and antenna test	Yes, license

* Requires Option TG7.

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

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

