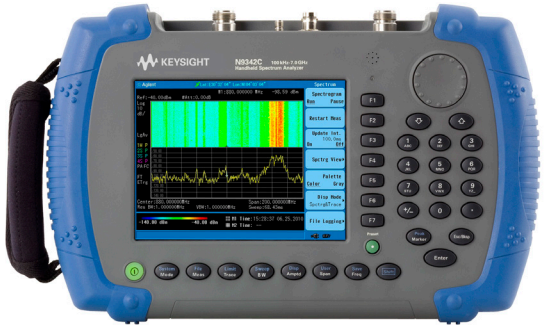
Product Fact Sheet

Keysight N9342C 7 GHz Handheld Spectrum Analyzer

If you are making measurements in the field, the Keysight Technologies, Inc. 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 Keysight N9342C HSA.



Innovative task planner reduces test setup time by 95%, delivers test automation and consistency, and makes it easy to captures test results, generate reports and share task plans with others. www.keysight.com/find/taskplanner

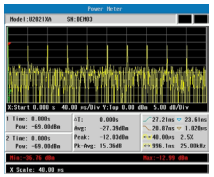
Get the features you need in a field-ready instrument:

- 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.

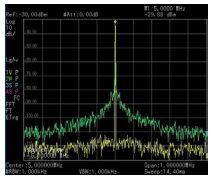
Gain confidence in your measurements with benchtop performance in a handheld instrument:

- 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 peak and average power measurements with Keysight USB power sensors.

Powerful measurement features



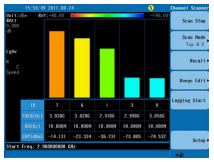
New! U2020 X-series USB peak and average power sensor support (Option PWP)



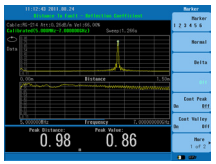
New! Baseband input (Option BB1)

Enhanced! Security features (Option SEC)

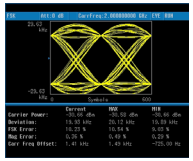
Measuring two-port transmission with tracking generator (Option TG7)



Channel scanner (Option SCN)

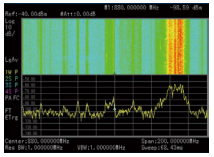


Cable and antenna test (Option CA7)



ASK/FSK modulation analysis (Option DMA)

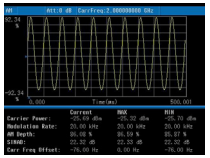
Built-in GPS receiver and GPS antenna (Option GPS)



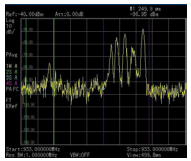
Spectrum monitor (Option SIM)

U2000 series USB power sensor support (Option PWM)

Task planner for routine test automation (Option TPN)



AM/FM modulation analysis (Option AMA)



Time-gated spectrum analysis (Option TMG)

KEYSIGHT TECHNOLOGIES

New N9342C enhancements

- SCPI through socket and telnet connection
- RRC filter for measuring LTE/W-CDMA channel power and adjacent channel power ratio
- Keypad lock/unlock with password
- Channel standards for LTE/Wi-Fi/WiMAX™

Key specifications

Specification	Description
Frequency range	9 kHz to 7 GHz
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	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	U2000 series USB power sensor support	Yes, license
TMG	Time-gated spectrum analysis	Yes, license
AMA	AM/FM modulation analysis	Yes, license
DMA	ASK/FSK modulation analysis	Yes, license
SCN	Channel scanner	Yes, license
CA7*	Cable and antenna test	Yes, license
Enchanced! SEC	Security features	Yes, license
New! BB1	Baseband input	Yes, license
New! PWP	U2020 X-series USB peak and average power sensor support	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

N9311X-201 Mechanical calibrator, DC to 7 GHz

More accessories at www.keysight.com/find/n9311X

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Keysight Services helps you improve productivity and product quality with our comprehensive service offerings of one-stop calibration, repair, asset management, technology refresh, consulting, training, and more.

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