



Agilent N9342C Handheld Spectrum Analyzer (HSA)

Configuration Guide



This N9342C HSA configuration guide will help you determine which performance options, measurement application software, accessories, and services to include with your new N9342C HSA or to add as upgrades to an existing N9342C HSA.



Agilent Technologies

Agilent N9342C Handheld Spectrum Analyzer (HSA)

This step-by-step process will help you configure your N9342C HSA. Capabilities that are listed as standard come with the instrument at no additional charge. Tailor the performance, and service packages to meet your requirements. Ordering optional capabilities at the time of purchase provides the lowest overall cost.

For performance information, refer to the N9342C Handheld Spectrum Analyzer Data Sheet (literature number 5990-5587EN).

Step 1. Add a preamplifier		
Description	Option number	Additional information
Preamplifier, 100 kHz to 7.0 GHz	N9342C-PA7	

Agilent N9342C Handheld Spectrum Analyzer (HSA)

Step 2. Add a tracking generator

Description	Option number	Additional information
Tracking generator, 5 MHz to 7.0 GHz	N9342C-TG7	Output level -20 dBm to 0 dBm, 1 dB step

Agilent N9342C Handheld Spectrum Analyzer (HSA)

Step 3. Add a GPS receiver

Description	Option number	Additional information
GPS receiver, with built-in antenna	N9342C-GPS	Offer longitude, latitude, and altitude information

Step 4. Add optional measurement features

Description	Option number	Additional information
Spectrum monitor	N9342C-SIM	Including spectrogram view, record, playback and audio alert
Task planner	N9342C-TPN	The industry's first task planner helps reduce up to 95% test setup time and enables test automation
High accuracy power measurement	N9342C-PWM	Require Agilent U2000 Series USB power sensor
Security erase of user data	N9342C-SEC	Erase the whole user flash memory by writing single character "1" over all memory locations.

Agilent N9342C Handheld Spectrum Analyzer (HSA)

Step 5. Add a accessory

Description	Option number	Additional information
Spare battery	N9342C-BAT	Lithium-ion, 10.8 V, 4.56 A-hr
Spare external battery charger	N9342C-BCG	
Spare AC/DC adapter	N9342C-ADP	1-output: 15 V, 5.33 A
Automotive 12 V DC adapter and charger	N9342C-1DN	For power supply and power charging
Automotive 12 V DC adapter	N9342C-1DC	Supplying DC power only
Hard transit case	N9342C-1TC	
Minimum loss pad, 50 to 75 Ohm	N9342C-TAD	
Ergonomic soft carrying case with backpack and shoulder strap	N9342C-SCC	As an introductory offer, a free N9342C-SCC ergonomic backpack will be provided with every N9342C HSA ordered before Feb 1, 2011.
External GPS antenna	N9342C-GPA	SMA-M connector
Antenna	N9311x-500	70 to 1000 MHz, 65 g, 180 degree tilt angle adjustable, N(m) telescopic whip antenna
Antenna	N9311x-501	700 to 2500 MHz, 70 g, 210x20 mm, Omni-directional, N(m)
Antenna	N9311x-504	700 MHz to 4 GHz, 4 dBi gain, 270 g, 340x200x25 mm, Logarithmic-periodic,N(m)
Antenna	N9311x-508	680 MHz to 8 GHz, 5 dBi gain, 250 g, 340x200x25 mm, Logarithmic-periodic,N(m)
Antenna	N9311x-518	680 MHz to 18 GHz, 5 dBi gain, 250 g, 340x200x25 mm, Logarithmic-periodic,N(m)
Bandpass filter	N9311x-550	3 dB passband 814 to 850 MHz, rejection ≥ 36 dBc at 740 MHz/ ≥ 36 dBc at 915 MHz insertion loss ≤ 0.5 dB, VSWR ≤ 1.5
Bandpass filter	N9311x-551	3 dB passband 880 to 915 MHz, rejection ≥ 35 dBc at 826 MHz/ ≥ 36 dBc at 932 MHz insertion loss ≤ 1 dB, VSWR ≤ 1.5
Bandpass filter	N9311x-552	3 dB passband 1707.5 to 1787.5 MHz, rejection ≥ 35 dBc at 1550 MHz/ ≥ 35 dBc at 1925 MHz insertion loss ≤ 0.4 dB, VSWR ≤ 1.5
Bandpass filter	N9311x-553	3 dB passband 1845 to 1915 MHz, rejection ≥ 35 dBc at 1770 MHz/ ≥ 35 dBc at 1986 MHz insertion loss ≤ 0.6 dB, VSWR ≤ 1.5
Bandpass filter	N9311x-554	3 dB passband 1910 to 1990 MHz, rejection ≥ 35 dBc at 1825 MHz/ ≥ 35 dBc at 2070 MHz, insertion loss ≤ 0.6 dB, VSWR ≤ 1.5
Adapter	N9311X-540	Type-N(m) to BNC(f), DC to 2 GHz
Adapter	N9311X-541	Type-N(m) to SMA(f), DC to 12.4 GHz
Adapter	N9311X-542	Type-N(f) to 7/16 DIN(f), DC to 7.5 GHz
Adapter	N9311X-543	Type-N(f) to BNC(m), DC to 4 GHz
Adapter	N9311X-544	Type-N(f) to 7/16 DIN(m), CD to 7.5 GHz
Adapter	N9311X-545	Type-N(f) to SMA(m), DC to 12.4 GHz
Adapter	N9311X-546	Type-N(f) to Type-N(f), DC to 18 GHz

Agilent N9342C Handheld Spectrum Analyzer (HSA)

Step 5. Add a preamplifier (continued)

Description	Option number	Additional information
Cable	N9311X-580	1.5 m, N(m) to N(m)
Cable	N9311X-581	3 m, N(m) to N(m)
Cable	N9311X-582	1.5 m, SMA(m) to SMA(m)
Cable	N9311X-583	1.5 m, BNC(m) to BNC(m)
Attenuator	N9311X-560	40 dB, N(m) to N(f), 10 watts average
Attenuator	N9311X-561	40 dB, N(m) to N(f), 50 watts average
Attenuator	N9311X-562	40 dB, N(m) to N(f), 100 watts average

Agilent N9342C Handheld Spectrum Analyzer (HSA)

Step 6. Choose warranty length

Description	Option number	Additional information
1-year return-to-Agilent warranty and service	Standard (R-51B-001-C)	1-year warranty is included at no additional charge
3-year return-to-Agilent warranty and service	R-51B-001-3C	Recommended upgrade

Agilent N9342C Handheld Spectrum Analyzer (HSA)

Step 7. Add calibration service

Description	Option number	Additional information
Commercial calibration certificate with test data	N9342C-UK6	Only available at time of instrument purchase; only provides measurement results
Calibration service: Agilent upfront support plan, 3 year term	R-51B-011-3	Agilent tests your instrument against its original specifications, and automatically makes adjustments if outside of specified parameters; per and post-adjustment measurement data reports are also provided

Instrument Upgrades

Upgrade your existing N9342C (HSA)

Fast upgrade process for selected performance options not requiring additional hardware

1. Place an order for the upgrade with Agilent and request to receive the option upgrade entitlement certificate through email
2. Redeem the certificate through the Web by following the instructions on the certificate
3. Install the license file and latest software in the N9342C
4. Begin using the new capability

Installation, calibration, and verification information is available at : www.agilent.com/find/N9342C_upgrades

Description	Option number	Additional information
Preamplifier, 100 kHz - 7 GHz	N9342CK-PA7	
Task planner	N9342CK-TPN	The industry's first task planner helps reduce up to 95% test setup time and enables test automation
High accuracy power measurement	N9342CK-PWM	Require Agilent U2000 Series USB power sensor
Security erase of user data	N9342CK-SEC	Erase the whole user flash memory by writing single character "1" over all memory locations
Spectrum monitor	N9342CK-SIM	Including spectrogram view, record, playback and audio alert
GPS receiver, with built-in GPS antenna	N9342CK-GPS	Offer longitude, latitude and altitude information

Hardware Upgrades

Add additional accessories to your existing N9342C

Description	Option number	Additional information
Tracking generator, 5 MHz to 7.0 GHzs	N9342CK-TG7	Output level -20 dBm to 0 dBm, 1 dB step
Spare battery	N9342CK-BAT	Lithium-ion, 10.8 V, 4.56 A-hr
Spare external battery charger	N9342CK-BCG	
Spare AC/DC adapter	N9342CK-ADP	1-output: 15 V, 5.33 A
Automotive 12 V DC adapter and charger	N9342CK-1DN	For power supply and power charging
Automotive 12 V DC adapter	N9342CK-1DC	Supplying DC power only
Hard transit case	N9342CK-1TC	
Minimum loss pad, 50 to 75 Ohms	N9342CK-TAD	
Ergonomic soft carrying case with backpack and shoulder strap	N9342CK-SCC	As an introductory offer, a free N9342C-SCC ergonomic backpack will be provided with every N9342C HSA ordered before February 1, 2011.
External GPS antenna	N9342CK-GPA	SMA-M connector

Other Information

Connectivity

1 USB 2.0 type A port, female	N9342C behaves like a host controller, USB 2.0 full speed
-------------------------------	---

1 USB 2.0 type-mini AB port, female	N9342C behaves like a device (client), USB 2.0 full speed
-------------------------------------	---

10 Base-T LAN interface	
-------------------------	--

N9342C HSA PC software	An easy-to-use, PC-based remote control tool for your N9342C handheld spectrum analyzer (HSA)
------------------------	---

Instrument weight and dimensions

Dimension (W x H x D)	318 mm x 207 mm x 69 mm (12.5 in x 8.15 in x 2.7 in)
-----------------------	--

Weight (with battery)	3.7 kg (8.1 lbs)
-----------------------	------------------

Hard transit case weight and dimensions

Weight (empty)	7.7 kg (16.9 lbs)
----------------	-------------------

Dimension (W x H x D)	560 mm x 460 mm x 270 mm
-----------------------	--------------------------

Additional Resources

Related Agilent Literature

Publication title	Pub number
<i>Agilent N9342C Handheld Spectrum Analyzer Brochure</i>	5990-5586EN
<i>Agilent N9342C Handheld Spectrum Analyzer Data Sheet</i>	5990-5587EN

Agilent Web site

www.agilent.com/find/n9342c



Agilent Email Updates

www.agilent.com/find/emailupdates

Get the latest information on the products and applications you select.

Agilent Channel Partners

www.agilent.com/find/channelpartners

Get the best of both worlds: Agilent's measurement expertise and product breadth, combined with channel partner convenience.



Agilent Advantage Services is committed to your success throughout your equipment's lifetime. We share measurement and service expertise to help you create the products that change our world. To keep you competitive, we continually invest in tools and processes that speed up calibration and repair, reduce your cost of ownership, and move us ahead of your development curve.

www.agilent.com/find/advantageservices



www.agilent.com/quality

www.agilent.com
www.agilent.com/find/n9342c

For more information on Agilent Technologies' products, applications or services, please contact your local Agilent office. The complete list is available at:

www.agilent.com/find/contactus

Americas

Canada	(877) 894 4414
Brazil	(11) 4197 3500
Latin America	305 269 7500
Mexico	01800 5064 800
United States	(800) 829 4444

Asia Pacific

Australia	1 800 629 485
China	800 810 0189
Hong Kong	800 938 693
India	1 800 112 929
Japan	0120 (421) 345
Korea	080 769 0800
Malaysia	1 800 888 848
Singapore	1 800 375 8100
Taiwan	0800 047 866
Thailand	1 800 226 008

Europe & Middle East

Austria	43 (0) 1 360 277 1571
Belgium	32 (0) 2 404 93 40
Denmark	45 70 13 15 15
Finland	358 (0) 10 855 2100
France	0825 010 700*
	*0.125 €/minute
Germany	49 (0) 7031 464 6333
Ireland	1890 924 204
Israel	972-3-9288-504/544
Italy	39 02 92 60 8484
Netherlands	31 (0) 20 547 2111
Spain	34 (91) 631 3300
Sweden	0200-88 22 55
Switzerland	0800 80 53 53
United Kingdom	44 (0) 118 9276201

Other European Countries:

www.agilent.com/find/contactus

Revised: July 8, 2010

Product specifications and descriptions in this document subject to change without notice.

© Agilent Technologies, Inc. 2010
Printed in USA, August 1, 2010
5990-5588EN



Agilent Technologies