



Tight Budget? Quality Standards High?

No problem! Agilent has you covered...

Agilent offers four
low-cost spectrum
analyzers with
different yet
distinct features
to fit your specific
test requirements
and budget.

N9320B Entry Level

The smallest footprint for Agilent's bench top analyzers, with an all digital IF, the Agilent N9320B allows you to identify and eliminate sources of unwanted interference or check the stability of circuit.

Introduced: September 2008



N9340B Handheld

The Agilent N9340B handheld RF spectrum analyzer provides exceptional performance and optimized usability for installation and maintenance tasks in the field, such as interference test, spectrum monitoring, and on-site repair with an impressive 70 dB input attenuation range.

Introduced: December 2007



N1996A CSA

The Agilent N1996A CSA spectrum analyzer offers overall amplitude accuracy of ± 0.5 dB with 5 MHz analysis bandwidth and low service/support costs. The instrument was designed for fast sweep speeds in narrow resolution bandwidths, and fast in-channel measurements.

Introduced: October 2005



E4411B/03B/08B Basic ESA-L

Offers frequency range up to 26.5 GHz for a reasonable price, and a 5 minute warm up time to meet guaranteed specifications. As the lowest cost ESA option, this basic ESA is ideal for cost conscious bench-top or manufacturing environments.

Introduced: May 2002



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Feature comparisons

This simplified table will help you quickly and easily determine which analyzers meet your needs. For more information on any of these products, please see www.agilent.com/find/lowcostsa

	N9320B Entry level	N9340B Handheld	N1996A CSA	E4411B/03B/08B Basic ESA-L
Frequency coverage (min to max)	9 kHz to 3 GHz	100 kHz to 3 GHz	100 kHz to 6 GHz	9 kHz to 26.5 GHz
Markers	12	6	4	4
Traces	4	4	4	3
Tracking generator	optional	optional	Included with stimulus/response suite	optional
Battery	N	Y	optional	optional
Built-in bridge	N	N	Y	N
AM/FM Demod	Y	Y	Y	N
ASK/FSK Demod	Y	Y	N	N
Power meter function	Y	Y	N	N
Connectivity				
LAN	Y	Y	Y	N
GPIB	Y	N	N	Y
USB for data saving	Y	Y	Y	N
Power measurement				
Channel power	Y	Y	Y	Y
OBW	Y	Y	Y	Y
ACP	Y	Y	Y	Y
TOI	Y	N	N	Y

Specification comparisons

The ESA-L has the highest specification performance of these analyzers, although each analyzer has great performance within its own respective category. The highlighted specs show the relative strengths of each analyzer.

	N9320B Entry level	N9340B Handheld	N1996A CSA	E4411B/03B/08B Basic ESA-L
RBW	10 Hz to 1 MHz	30 Hz to 1 MHz	10 Hz to 5 MHz	1 kHz to 5 MHz
Analysis bandwidth	1 MHz	1 MHz	5 MHz	n/a
VBW	10 Hz to 1 MHz	30 Hz to 1 MHz	1 Hz to 50 MHz	1 Hz to 3 MHz
DANL w/preamp	-130 dBm/-148 dBm	-128 dBm/-146 dBm	-126 dBm/-146 dBm	-124 dBm/na
Amp accuracy	±1.5 dB (±0.5 dB typ.)	±1.5 dB	±0.5 dB	±1.0dB
Max. 3rd order dynamic range, 1 GHz	93 dB	89 dB	96 dB	108 dB
Phase noise	-88 dBc	-87 dBc	-85 dBc	-90 dBc
Input attenuator	0 to 70 dB	0 to 51 dB	0 to 40 dB	0 to 65 dB
Attenuator step	1 dB	1 dB	1 dB	5 dB
Warm up time	30 min	30 min	5 min	5 min

Product specifications and descriptions in this document subject to change without notice.
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Low-cost spectrum analyzers:
www.agilent.com/find/lowcostsa



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