



State-of-the-art and powerful

- ▶ Excellent RF performance
 - Dynamic range, max. port output power and trace noise, etc.
- ▶ Built-in receiver step attenuator – unique in the handheld class
- ▶ Supports smartphone-like touch gesture
- ▶ Fast configuration in a few taps
- ▶ Flexible calibration steps

Your benefit	Features
Additional protection against overloading without external attenuator	▶ Built-in receiver step attenuator with attenuating values from 0 dB to 15 dB (in 5 dB steps)
No hidden costs	▶ Straightforward ordering concept – options have no prerequisites
Remote control at no extra cost	▶ Remote control with free downloadable R&S®InstrumentView software and R&S®MobileView app ▶ Control via SCPI command

Upfront costs: more features are included as standard

Pricing comparison	R&S®ZNH				Keysight FieldFox			
	ZNH4	ZNH8	ZNH18	ZNH26	N9923A	N9925A	N9927A	N9928A
Unit price	EUR 11 k	EUR 17 k	EUR 25 k	EUR 30 k	EUR 9,540 (USD 11,301)	EUR 14,660 (USD 17,363)	EUR 22,228 (USD 26,326)	EUR 26,010 (USD 30,806)
Cable and antenna analysis	Standard (inclusive)				EUR 461 (USD 546)	EUR 461 (USD 546)	EUR 461 (USD 546)	EUR 461 (USD 546)
Full two-port S-parameters	Standard (inclusive)				EUR 1,870 (USD 2,214)	EUR 2,769 (USD 3,279)	EUR 5,538 (USD 6,557)	EUR 5,538 (USD 6,557)
Remote control capability	Standard (inclusive)				EUR 470 (USD 557)	EUR 470 (USD 557)	EUR 470 (USD 557)	EUR 470 (USD 557)



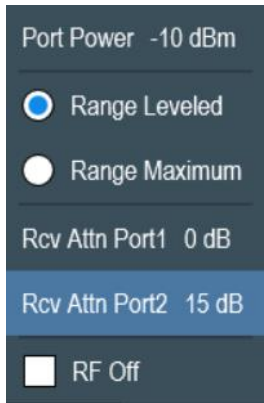
For prices and more information, visit <http://www.rohde-schwarz.com/product/ZNH>

Parameter	R&S®ZNH	Keysight FieldFox N992xA
Frequency	30 kHz to 4/8/18/26.5 GHz	30 kHz to 4/9/18/26.5 GHz
Number of test ports	2	2
Dynamic range ¹⁾		
30 kHz ≤ f < 10 MHz	> 73 dB, 84 dB (typ.)	> 95 dB, 100 dB (typ.)
10 MHz ≤ f < 8 GHz	> 90 dB, 100 dB (typ.)	> 95 dB, 100 dB (typ.)
8 GHz ≤ f < 18 GHz	> 80 dB, 90 dB (typ.)	> 90 dB, 94 dB (typ.)
18 GHz ≤ f < 20 GHz	> 75 dB, 85 dB (typ.)	> 87 dB, 90 dB (typ.)
20 GHz ≤ f < 26 GHz	> 70 dB, 80 dB (typ.)	> 74 dB, 79 dB (typ.)
26 GHz ≤ f < 26.5 GHz	> 68 dB, 78 dB (typ.)	> 65 dB, 70 dB (typ.)
Max. port output power ¹⁾		
30 kHz ≤ f ≤ 300 kHz	-10 dBm (meas.)	-11 dBm (typ.)
300 kHz ≤ f ≤ 10 MHz	0 dBm (meas.)	-3 dBm (typ.)
10 MHz ≤ f ≤ 24 GHz	0 dBm (meas.)	between -10 and 1 dBm (typ.) ²⁾
24 GHz ≤ f ≤ 26.5 GHz	-5 dBm (meas.)	-12 dBm (typ.)
Trace noise ¹⁾		
Magnitude (RMS)		
30 kHz ≤ f < 8 GHz	< 0.003 dB, 0.0015 dB (typ.)	0.004 dB
8 GHz ≤ f < 15 GHz	< 0.004 dB, 0.0020 dB (typ.)	0.004 dB
15 GHz ≤ f < 26.5 GHz	< 0.006 dB, 0.0040 dB (typ.)	0.007 dB
Phase (RMS)		
30 kHz ≤ f < 8 GHz	< 0.05°, 0.015° (typ.)	< 0.07°
8 GHz ≤ f < 26.5 GHz	< 0.06°, 0.025° (typ.)	< 0.14°
Measurement speed	761 μs/point	432 μs/point
Measurement points	16 001	10 001
Receiver step attenuator	built-in, standard 0 dB to 15 dB (in 5 dB steps)	not available
Wave measurements	yes, option (R&S®ZNH-K66 option) b1/a1, b2/a1, b1/a2, b2/a2, a1, b1, a2, b2	yes, option (option 308 and 122/211) b/a, a/b
Battery life	4 hours	3.5 hours (typ.)

¹⁾ Refer to Keysight data sheet for detailed breakdown of frequencies.

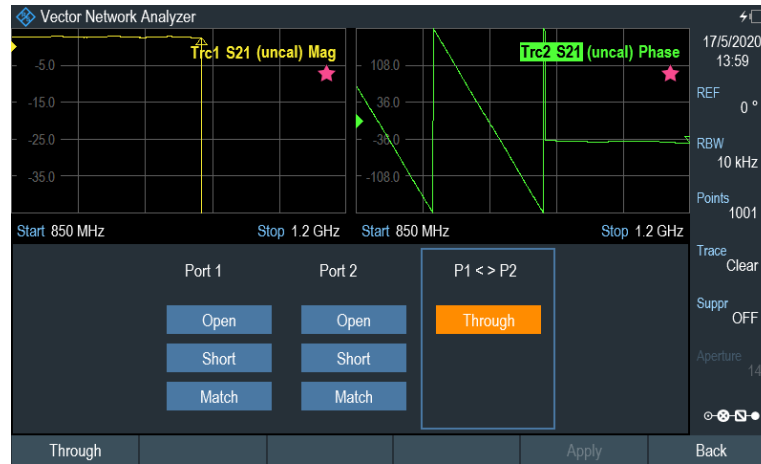
²⁾ 1 dBm valid only for a small frequency range (> 625 MHz to 3 GHz).

Receiver attenuation ports



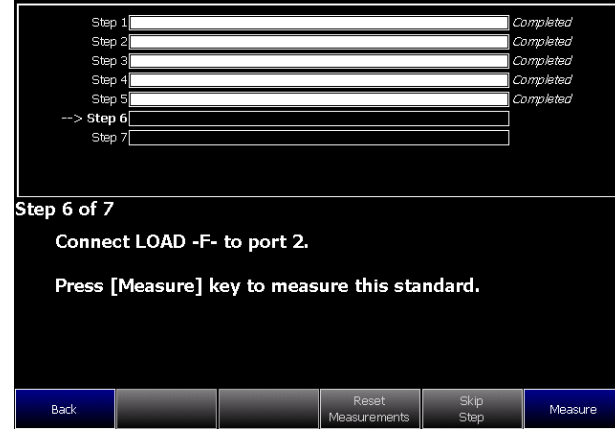
Attenuation can be selected for port 1 and port 2 (0 dB to 15 dB in 5 dB steps).

Flexible calibration



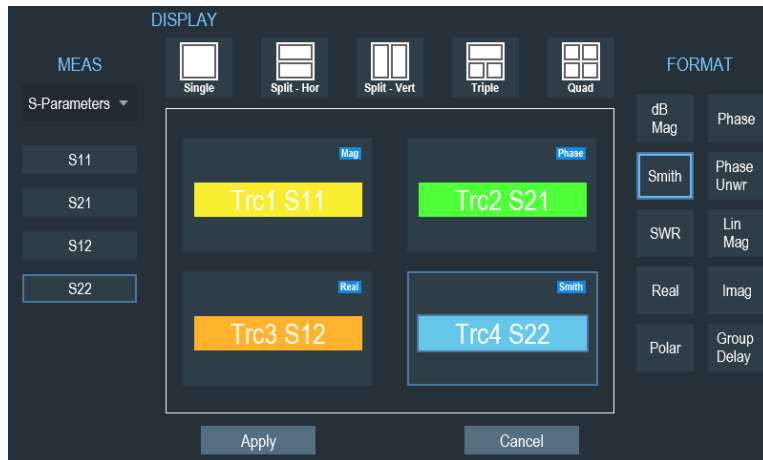
R&S®ZNH – during calibration, you can create your own sequence for the connection of calibration standards.

Cal Wizard

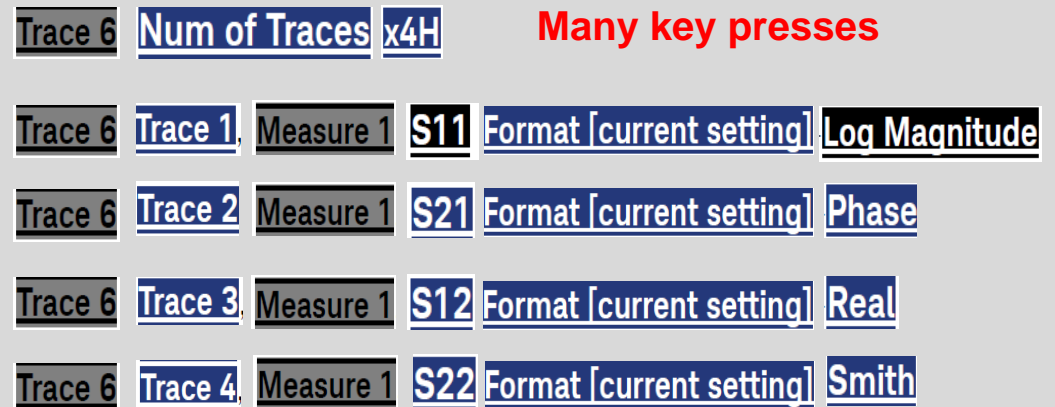


FieldFox – during calibration, you have to follow the set sequence and have no flexibility.

Fast and easy multi-trace configuration



R&S®ZNH – multi-trace configuration dashboard; fast configuration in just a few taps.



FieldFox – significant amount of key presses required to show four traces in separate graticules with different formats.