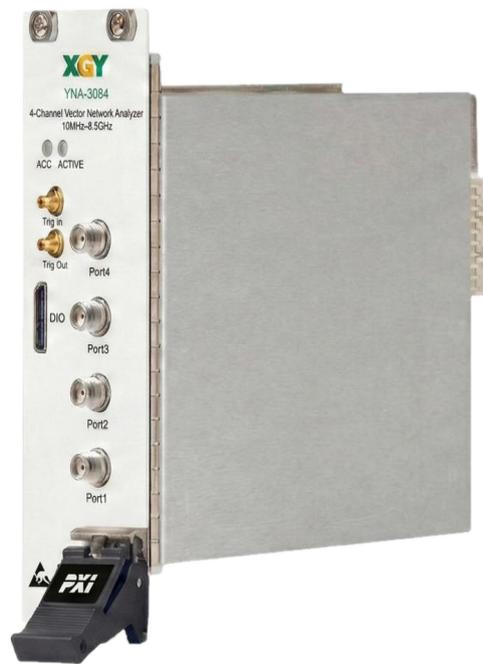


YNA-3084 Vector Network Analyzer

At a Glance

The YNA-3084 is a 4-port vector network analyzer covering a frequency range of 10MHz to 8.5GHz. Featuring a PXIe standard 3U design, it compresses four channels into just two slots to effectively save space and reduce costs. This highly integrated vector network analyzer excels in laboratory and production-line testing for cables, PCBs, and filters. It is ideal for automated test systems, significantly enhancing efficiency and simplifying scalability.



High Dynamic Range

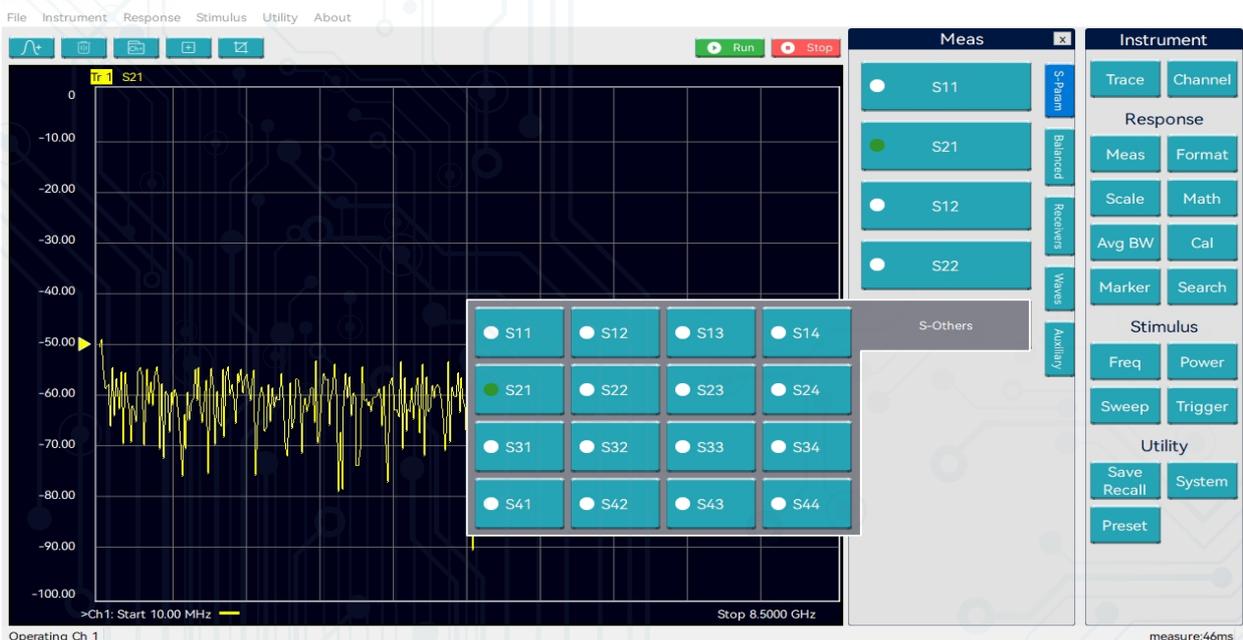
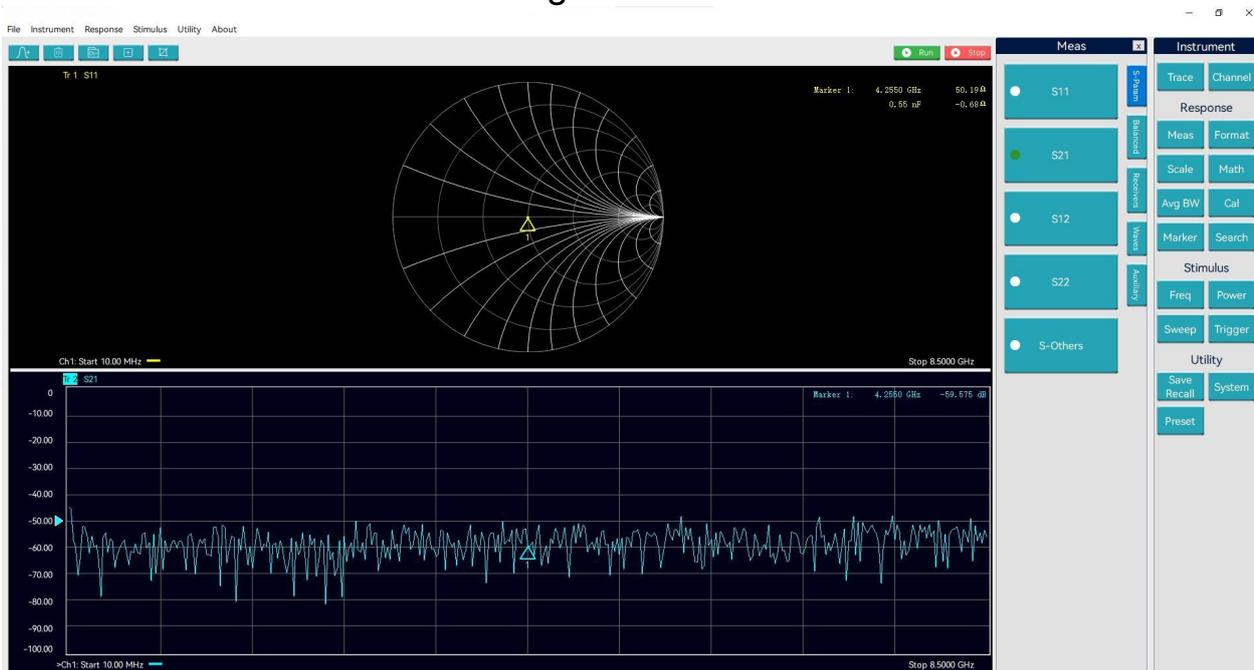
- Achieves a dynamic range exceeding 123 dB for frequencies above 50MHz.
- Ensures highly precise measurement of weak signals.

Output Power

- Output ranges from -35 dBm to +5 dBm.
- Power accuracy is strictly controlled within ± 1.5 dB.

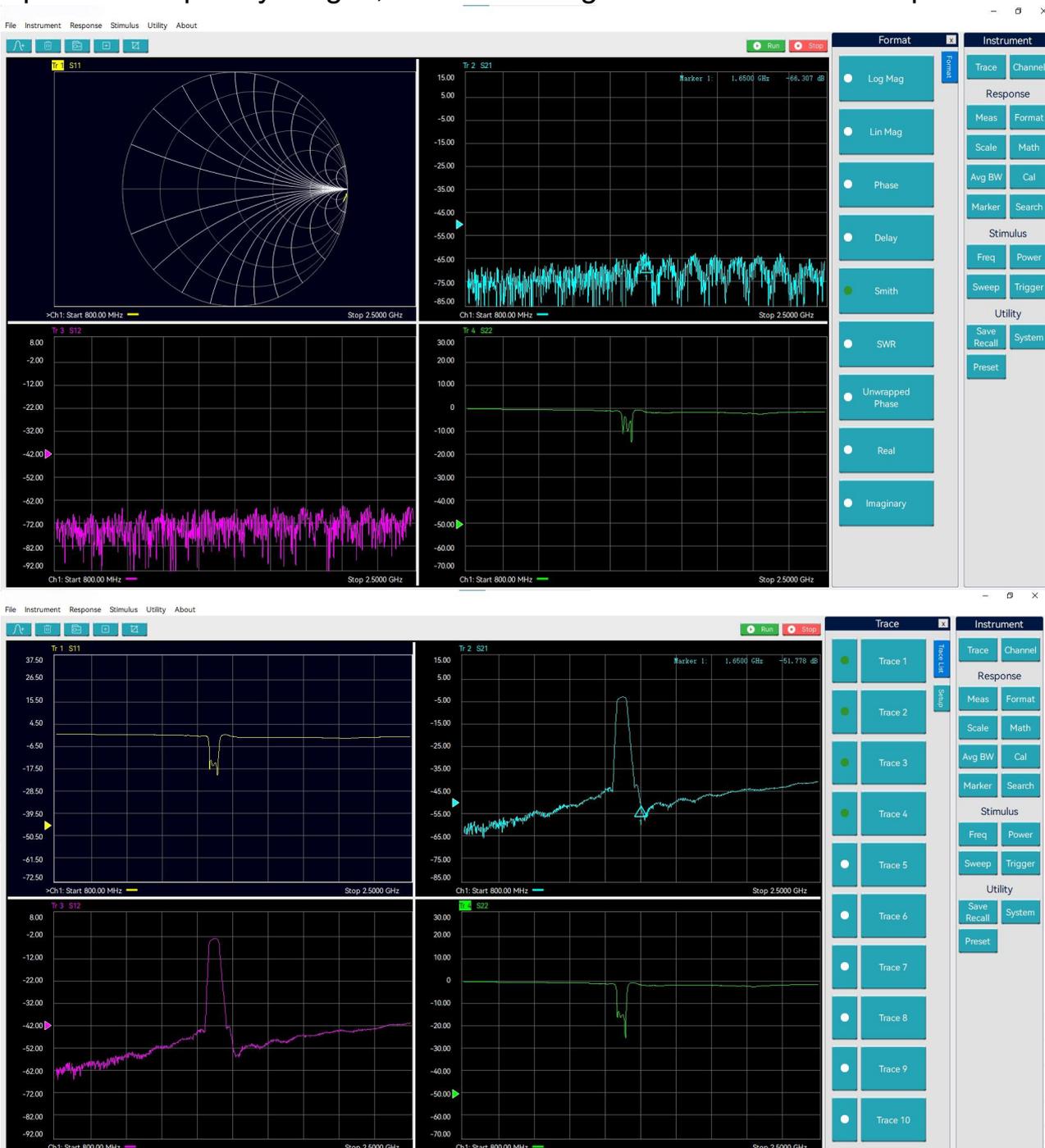
Measurement and Display Capabilities

- **S-Parameter Support:** Supports full S-parameters (S_{11} , S_{21} , S_{12} , S_{21}) and formats including Log Mag, Phase, Smith Chart, SWR, and Group Delay.
- **Multi-Channel Management :** Supports up to 21 independent channels, allowing for varied test setups simultaneously.
- **Axis Scaling:** Includes Autoscale and manual adjustment of Reference Level and Reference Position.
- **Trace Management:** Users can add or delete multiple traces to compare different measurement curves within a single window.



Data Analysis and Processing

- **Trace Math:** Offers Data Trace , Memory Trace (retains a previous measurement), and Data & Memory modes for real-time comparison.
- **Averaging & Bandwidth:** Adjustable IF Bandwidth and averaging counts to optimize the trade-off between measurement speed and dynamic range.
- **Marker Search:** Provides Max Search, Min Search, and Target Search within specified frequency ranges, with a Tracking mode for continuous updates.



Specifications

Vector Network Analyzer		
Model	YNA-3084	
Bus Interface	PXle	
Frequency	Frequency range	10MHz ~ 8.5GHz
	Frequency resolution	1Hz
	Full frequency accuracy	±5 ppm
Number of test ports	4	
Port switch over time	1ms	
IF bandwidth	1MHz/100KHz/10KHz/1KHz/ 100Hz	
Dynamic range	10MHz~50MHz: >113 dB; Above 50MHz:>123 dB	
Power	Power range	-35 dBm – +5 dBm
	Power accuracy	±1.5 dB
	Power resolution	0.05 dB
Harmonic spurs	-30 dBc	
Non-harmonic spurious	-30 dBc	
Damage level	> +26 dBm	
Noise floor	10MHz~50MHz: <-110 dBm/Hz; Above 50MHz: <-120 dBm/Hz	
Trace noise magnitude(IF bandwidth 1 kHz)	0.003 dB rms	
Trace noise phase(IF bandwidth 1 kHz)	0.05 deg rms	
Directivity	40 dB	
Source match	40 dB	
Load match	40 dB	
Size	PXle 2 slot	
Weight	1.4kg	