

Agilent Engineering Services for PNA Series MW Network Analyzers

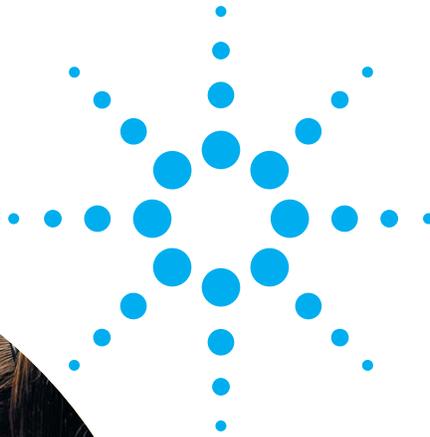
E8361A, E8362/3/4B, N5250A



Whether you need startup assistance or application solutions,

Agilent engineering services accelerate your success

with PNA Series MW Network Analyzers



Application Engineering Services

- 8510/872x to PNA migration services
- Test plan development
- Test code conversion
- Test code development

Start-Up Assistance

Education Services

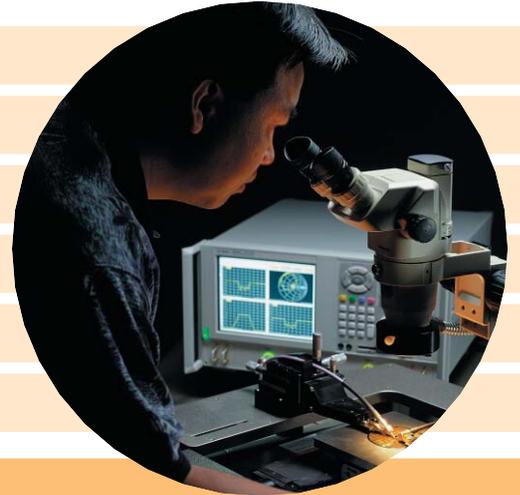


Agilent Technologies

From Start-up to application solutions,

Agilent engineering services accelerate your success

- Get up and running quickly
- Optimize your equipment performance and utilization
- Maintain your competitive edge
- Expert coaching to enhance your application

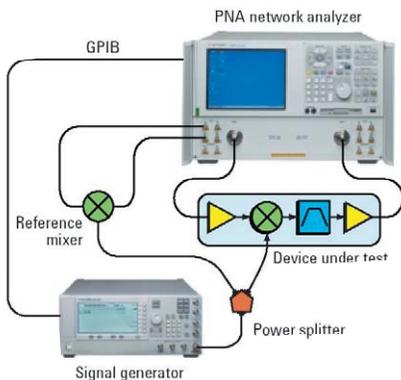


Application Engineering Services

PNA Series Measurement Consulting for Passive and Active Components

Agilent's experts will work with you to effectively perform measurements with the PNA series network analyzers and evaluate your DUT in one of the following applications:

- Mixer (frequency translation devices) test
- Amplifier test
- Filter test
- Balanced/unbalanced device test using a multi port network analyzer
- Pulsed measurement applications
- Antenna measurements
- Materials measurements

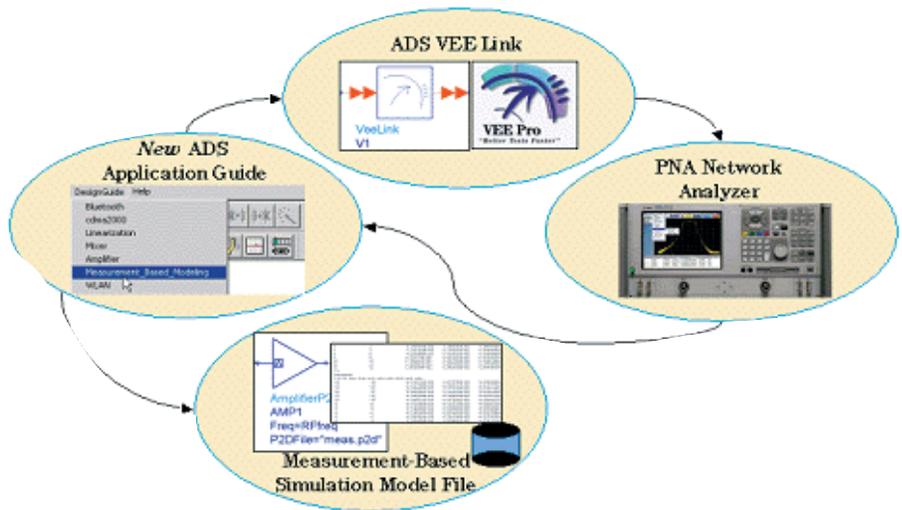


ADS & PNA Connectivity

Agilent's experts will work with you to be able to use the ADS (Advanced Design System) link with the PNA effectively. As example, we want to introduce a new Modeling Application Guide for Power Amplifier Measurements. Our application engineer will help you design and verify power amplifiers quickly by achieving the following tasks:

- Encapsulating the hardware performance measured by the PNA as data within your own schematic.

- Creating an amplifier behavioral model using a PNA and inserting within your schematic instead of circuit models (a VEE license is necessary to run this application).
- Reading S-parameters from a PNA over swept RF power levels.
- Converts PNA S-parameter data to ADS simulation model files.
- Save time & effort in creating numerous power-dependent amplifier simulation models.
- Effective use of new features like the Connection Manager, to build your own drivers and measurement configuration





If you've made the choice to migrate your network analyzer system in order to realize improvements in speed and accuracy from the PNA series of network analyzers, Agilent offers a spectrum of services that provide training, code conversion, and/or test plan design to current users of the 8510 series of network analyzers who plan to upgrade their application to the PNA series network analyzers.

8510/872x to PNA Migration Services

Test Plan Development

Test plan development helps you optimize your test procedures and your current measurement practices when using a PNA in an ATE environment. If you are introducing the PNA in a manufacturing test process, Agilent experts will show you the most efficient use of the PNA measurement capabilities and technical features. This service will provide you with a customized test plan that may include the following:

- Potential test time reduction
- Analysis to improve measurement speed by optimizing existing test-code
- Results of benchmarking 872x/8510 systems versus the PNA series
- Improvement of the current measurement repeatability and accuracy
- Improvement of current measurement practices and results
- The best measurement calibration strategy
- Decrease calibration time using electronic calibration (Ecal)
- Test procedure for complex multiport devices

Test Code Conversion

This service is for integrating the PNA series network analyzers into an existing 872x/8510 based ATE system. The consulting includes:

- Conversion of existing test code in HP Basic, Visual Basic, Visual Basic.NET, Visual C++, Visual C++.NET, Agilent-VEE Pro or LabView

Test Code Development

Agilent's test code development service provides software development for automated engineering and manufacturing test systems. Our experts help you to speed up your test automation projects and to achieve results on time. The consulting includes:

- Develop code in programming environments including Visual Basic, Visual Basic.NET, Visual C++, Visual C++.NET, Agilent-VEE Pro or LabView

These services take place at your site with your equipment. The content and length of the service will be customized to meet your needs.

Agilent start-up services helps you get up and running with your test equipment as quickly as possible in your local environment



Agilent Start-up Assistance

Agilent provides start-up assistance to help you get up to speed quickly using the PNA series vector network analyzers in your local environment.

An expert from Agilent will tailor the service according to your requirements.

Topics may include:

- Front panel overview
- Basic operation and application training
- Measurement capabilities and feature set of the PNA series vs 8510/872x
- Programming assistance and connectivity to PC
- Other topics to be agreed upon

Start-up Assistance for Complex PNA Based Solutions

Start-up Assistance is available at your site for all complex PNA-based microwave network analysis solutions to help you get up and running quickly upon delivery.

We strongly recommend this service when purchasing one of the following systems:

- N19xxA—Physical Layer Test System
- N5250A—10MHz-110GHz VNA System

Topics may include:

- Test system architecture and measurement set-up
- User training
- Optimization of measurements set-up
- Other topics to be agreed with the consultant

An Agilent expert will tailor the service according to your requirements and background prior to the delivery.

For personalized, one-to-one delivery, this assistance can take place at your site, with your equipment. For a convenient and cost-effective alternative, Remote Scheduled Productivity Assistance (RSPA) can deliver start-up assistance via the telephone and internet-collaboration tools.

Education Services

PNA Series Network Analyzer Classroom Training (1 day at your site)

The 1-day course has been designed for engineers looking for in-depth understanding of network analysis fundamentals and applications. Upon completion of the course, the attendees will be able to effectively perform accurate measurements using a PNA series network analyzer. A large part of this on site course is dedicated for hands-on.



Agenda:

- Network analyzer fundamentals
- PNA series system architecture
- Test set configuration
- PNA series operation
- Calibration error model and accuracy enhancement
- Advanced calibration techniques
- Effective use of ECAL
- Multiport test sets applications
- Time domain analysis
- Practical hands-on measurements



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Agilent offers a wide range of additional expert test and measurement services for your equipment, including initial start-up assistance onsite education and training, as well as design, system integration, and project management.

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