

Installation Note

Frequency Offset Mode Upgrade Kit

Upgrade Kit Number: N5230-60101

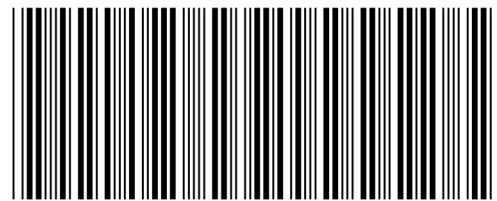
For ALL N5230A Microwave Network Analyzers



Agilent Part Number: N5230-90003

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N5230-90003

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WARNING	Warning denotes a hazard. It calls attention to a procedure which, if not correctly performed or adhered to, could result in injury or loss of life. Do not proceed beyond a warning note until the indicated conditions are fully understood and met.
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Description of the Upgrade

Frequency offset mode allows the PNA source and receiver to be tuned to different frequencies. This is convenient, if not necessary, for testing frequency conversion devices, such as mixers and converters, where the input and output frequencies are different.

The PNA source, at one frequency, can be used as the input to the DUT, and the PNA receiver can be tuned to the output signal of the DUT at a different frequency.

This upgrade adds Option 080 which adds the frequency offset mode capability to your PNA.

About Installing the Upgrade

Products affected.	All N5230A microwave network analyzers
Installation to be performed by	Agilent service center or personnel qualified by Agilent
Estimated installation time	5 minutes
Estimated verification time	5 minutes

Items Included in the Upgrade Kit

Check the contents of your kit against the following list. If any item is missing, contact Agilent Technologies. Refer to [“Getting Assistance from Agilent”](#) on page 3.

Table 1 Contents of Upgrade Kit N5230-60101

Quantity	Description	Part Number
1	Installation note (this document)	N5230-90003
1	License key certificate	5964-5136

Installation Procedure for the Upgrade

Installation Requirements

- The network analyzer must be in proper working condition prior to installing this option. Any necessary repairs must be made before proceeding with this installation.
- This installation does not require removal of the analyzer's protective outer covers.
- The analyzer must be powered up and operating to perform this installation. The Network Analyzer program must be running.
- This installation requires that a keyboard and a mouse be connected to the network analyzer.

Verify the Serial and Option Numbers

Refer to the License Key Certificate obtained:

- Verify that the analyzer's model and serial numbers match those on the certificate.
- Verify that the option number on the certificate matches the option number described in this installation note.

If the model number, serial number, or option number do not match the expected results, you will not be able to install the option. If this is the case, contact Agilent for assistance. Refer to ["Getting Assistance from Agilent" on page 3](#).

Enable Option 080

1. On the analyzer's **System** menu, point to **Service**, and then click **Option Enable**.
2. In the **Select Desired Option** list, click **080 - Frequency Offset**.
3. Using the keyboard, enter the keyword in the box provided. The keyword is printed on the License Key Certificate. Enter this keyword *exactly* as it is printed on the certificate.
4. Click **Enable**.
5. Click **Yes** in answer to the displayed question in the **Restart Analyzer?** box.
6. When the installation is complete, click **Exit**.

Verify that Option 080 Is Enabled

Once the analyzer has restarted and the Network Analyzer program is again running:

1. On the analyzer's **Help** menu, click **About Network Analyzer**.
2. Verify that "080" is listed after "Options:" in the display. Click **OK**.

NOTE If Option 080 has not been enabled, perform the ["Enable Option 080"](#) procedure again. If the option is still not enabled, contact Agilent Technologies. Refer to ["Getting Assistance from Agilent" on page 3](#).
