

Installation Note

Agilent MXA Signal Analyzer Options 13M, 308, 313, 326, 813, 826, P03, P08, P13, P26 Preamplifier



Agilent Technologies

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Preamplifier Option MXA Installation Kit

Products Affected:	MXA N9020A
Serial Numbers:	All
Options	13M - Preamplifier, 13.6 GHz to 26.5 GHz 308 - Preamplifier, 3.6 GHz to 8.4 GHz 313 - Preamplifier, 3.6 GHz to 13.6 GHz 326 - Preamplifier, 3.6 GHz to 26.5 GHz 813 - Preamplifier, 8.4 GHz to 13.6 GHz 826 - Preamplifier, 8.4 GHz to 26.5 GHz P03 - Preamplifier, 3.6 GHz P08 - Preamplifier, 8.4 GHz P13 - Preamplifier, 13.6 GHz P26 - Preamplifier, 26.5 GHz
To Be Performed By:	<input checked="" type="checkbox"/> Agilent Service Center <input checked="" type="checkbox"/> Personnel Qualified by Agilent <input checked="" type="checkbox"/> Customer
Estimated Installation Time:	0.5 Hours
Estimated Adjustment and Verification Time:	3.5 Hours (see Note 2)

Introduction

This kit contains all of the instructions required to install either Option 13M, Option 308, Option 313, Option 326, Option 813, Option 826, Option P03, Option P08, Option P13 or Option P26 on an Agilent MXA Signal Analyzer. No tools are required.

NOTE

1. At the time of manufacture the hardware related to this option was fully adjusted and the option performance was verified to be within its warranted specifications. Within one year of the initial calibration date of the instrument this option is fully calibrated with no further adjustment or verification testing.

To determine the initial calibration date, locate the original calibration certificate that was shipped with the instrument at the time of purchase. The Date of Calibration is printed on the original calibration certificate.

To ensure that this newly installed option has been installed properly the procedure that follows includes a functional check.

No factory test data is available for this option. If you require test data for this option then a full calibration is required after installation of this option. Arrangements regarding the level of calibration must be made with the calibration provider.

2. If this instrument has been adjusted as part of a repair or calibration during its first year, or if the instrument is more than one year old, additional adjustments and performance verification tests are required to ensure that this newly installed option is functioning properly. However, the completion of these tests does not guarantee that the instrument meets all warranted specifications.

3. The latest revision of the MXA software may be downloaded from

http://www.agilent.com/find/mxa_software

or may alternatively be ordered as N9020AK-SWM.

4. This option is licensed for one instrument model/serial number combination. The license key will only install on the designated instrument.

Contents

Quantity	Description	Agilent Part Number
1	Installation Note	This note
1	Option Upgrade Entitlement Certificate	5964-5178
1	USB Storage Device	1819-0195

Tools Required

- ❑ MXA Signal Analyzer and Service Guide. This manual can be purchased as N9020A-0BW or N9020-90002.
- ❑ Microsoft® Windows® based personnel computer with LAN card and USB port
- ❑ Windows 2000®, or Windows XP®

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Installation Procedure over USB

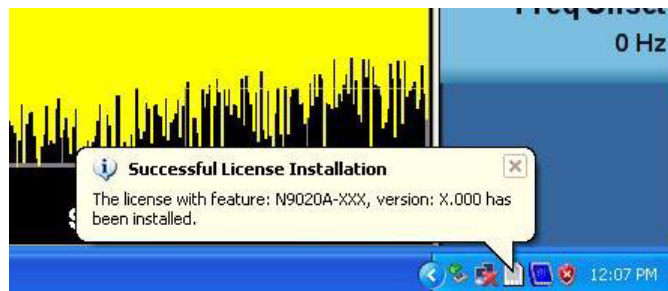
1. Locate the Option Upgrade Entitlement Certificate (5964-5178) from the kit.
2. Redeem the Option Upgrade Entitlement Certificate by following the instructions on the Certificate.
3. After redeeming your Option Upgrade Entitlement Certificate you will receive an email with an attached License File.
4. Locate the USB Storage Device from the kit.
5. Save the License File to the root directory of the USB Storage Device.
6. Connect the USB Storage Device to the MXA USB port. Windows will detect the new hardware and may display the configuration menu shown in [Figure 1](#). This menu may be configured according to your preferences.

Figure 1 USB Storage Device Configuration Menu



7. The MXA will automatically consume the License File. (This may take a few minutes) When the License File is consumed the Agilent License Manager will display a “Successful License Installation” message as shown in [Figure 2](#).

Figure 2 Successful License Installation



Alternate Installation Procedure

The License File can be manually installed over USB or LAN by placing the license file in the following folder on the MXA

C:\Program Files\Agilent\licensing

Verify the Installation

1. Press **System, Show, System** to display a list of installed options.
2. Verify that the newly installed option number appears on the list.

Functional Check:

Within one year of the initial calibration date of the instrument this option is fully calibrated with no further adjustment or verification testing. To ensure that this newly installed option has been enabled correctly the following functional check is recommended.

1. Press **System, Alignments, Align Now, All**.
2. Watch for any errors during the instrument alignment.
3. Press **System, Show, Errors** to view the instrument error log.
4. Verify that there were no errors during the alignment.

Utilities, Adjustments, and Performance Verification Tests

Calibration Software and specified test equipment is required to perform the adjustments, and can be used to automate the performance verification testing. Information on how to obtain this software can be found at

<http://www.agilent.com/find/calibrationsoftware>

Utilities Required

None

Adjustments Required

If the instrument is more than one year old, or if this instrument has been adjusted as part of calibration during its first year, the following adjustments are the minimum set required to ensure that this newly installed option is functioning properly.

Adjustments
Freq Resp Below 3.6 GHz, Preamp On
Freq Resp Above 3.6 GHz, Preamp On (All Pre-Amp Options except P03)

Performance Testing Required

If the instrument is more than one year old, or if the instrument has been adjusted as part of a calibration during its first year, the following performance verification tests are the minimum set required to ensure that this newly installed option is functioning properly. Performing only these tests does not guarantee the instrument meets all specifications.

Performance Verification Tests
Frequency Response Below 3.6 GHz, Preamp On
Frequency Response Above 3.6 GHz, Preamp On (All Preamp Options except P03)
Displayed Average Noise Level

A full calibration is required to assure the instrument meets all specifications

The end user must ultimately determine whether they want a full calibration to be performed after the installation of this upgrade or not. If a full calibration is required, arrangements regarding the level of calibration must be made between the end user and the calibration provider.

For assistance, contact your nearest Agilent Technologies Sales and Service Office. To find your local Agilent office access the following URL, or if in the United States, call the following telephone number:

<http://www.agilent.com/find/assist>

1-800-829-4444 (8 am - 8 pm ET, Monday - Friday)