

Keysight MXA Signal Analyzer

Option RT1 and RT2 - Real Time Spectrum Analyzer

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Option RT1 and RT2 - Real Time Spectrum Analyzer Installation Kit

Products Affected:	MXA N9020A
Serial Numbers:	All
To Be Performed By:	(X) Keysight Service Center (X) Personnel Qualified by Keysight (X) Customer
Estimated Installation Time:	1.0 Hours
Estimated Adjustment and Verification Time:	0. Hours

Introduction

This kit contains all of the hardware and instructions required to install either Option RT1 or Option RT2 on an Keysight MXA Signal Analyzer.

NOTE

1. The signal analyzer being upgraded with this option must have software version A.13.00 or newer. To verify that the current version meets this requirement, press **System, Show, System** and look for the “Instrument S/W Revision”.

The latest revision of the X-Series Signal Analyzers software may be downloaded from

http://www.keysight.com/find/xseries_software

If a software update is required, you **MUST** update the software before following the procedure in this document for redeeming and installing of the option upgrade license key.

2. The signal analyzer being upgraded must also have either Option B85, Option B1A, or Option B1X already installed. To verify that one of these options is present, press **System, Show, System** and look under “Options” for “N9020A-B85”, “N9020A-B1A”, or “N9020A-B1X”.
3. This option is licensed for one instrument model/serial number combination. The license key will only install on the designated instrument.
4. For optimum display performance (display update rate), MXAs with the PC2 CPU installed should run the Windows XP for Embedded Systems operating system and MXAs with the PC4 CPU installed should run the Windows Embedded System 7 operating system. Display performance will be suboptimum if the PC4 CPU is running the Windows XP for Embedded Systems operating system. No data is lost when the display performance is suboptimum.

For information on upgrading either the CPU or operating system, go to http://www.keysight.com/find/mxa_upgrades

Contents

Quantity	Description	Keysight Part Number
1	RTSA Upgrade Label, MXA	N9020-80126
1	Installation Note	This note
1	Option Upgrade Entitlement Certificate	5964-5178

Tools Required

- Personal computer with internet access and USB port
- USB storage device with >2GB free memory

Installation Procedure

License Installation 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 a USB storage device. Perform a virus scan on this device before use.
5. Save the License File to the root directory of the USB Storage Device.
6. Connect the USB Storage Device to the signal analyzer 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 signal analyzer will automatically consume the License File. (This may take a few minutes) When the License File is consumed the Keysight 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 signal analyzer

C:\Program Files\Agilent\licensing

Verify the License Installation and Instrument Software Version

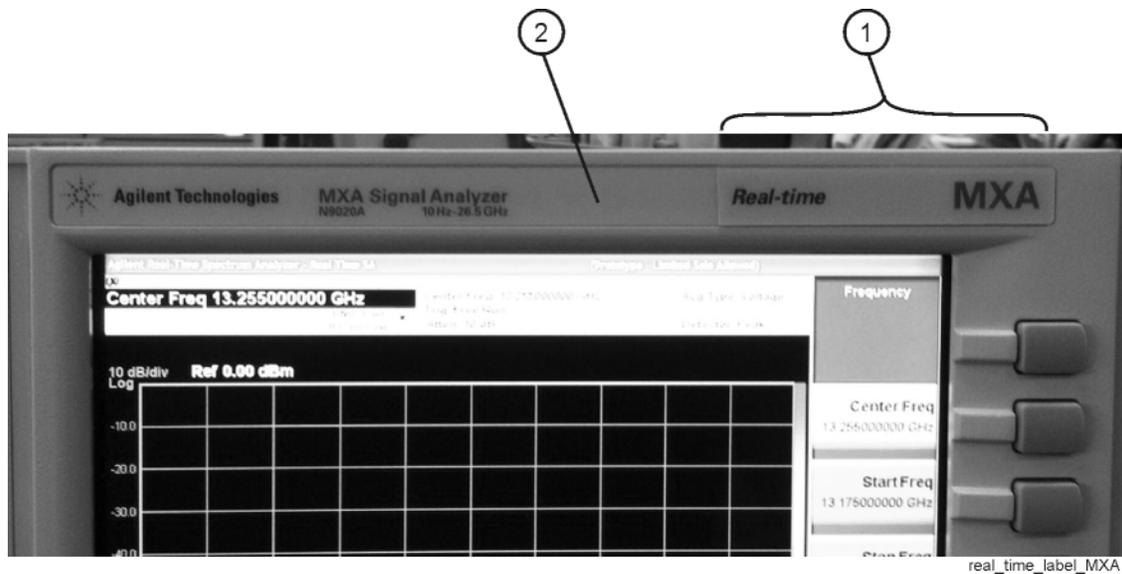
1. Cycle power on the MXA signal analyzer.
2. Press **System, Show, System** to display a list of installed options.
3. Verify that the newly installed option number (N9020A-RT1 or N9020A-RT2) appears on the list.
4. Verify that the "Instrument S/W Revision" meets the requirements outlined in the **Introduction** 1 on **page 3** of this document.

Add “Real-Time” Label

Included in the kit is a label to cover the right hand portion of the nameplate to indicate that Real-Time Spectrum Analyzer capability has been added.

1. Locate the real-time upgrade label, N9020-80126, in the kit.
2. Clean and dry the nameplate on the analyzer. This will help to ensure proper adhesion of the label.
3. Peel off the backing of the real-time upgrade label.
4. Refer to **Figure 3**. Carefully align the real-time upgrade label (1) over the right-most portion of the nameplate (2). Once the label is properly aligned, press firmly on the label to ensure proper adhesion.

Figure 3 Applying Real-Time Upgrade Label to Nameplate



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Utilities, Adjustments, and Performance Verification Tests

Utilities Required

None

Adjustments Required

None

Performance Testing Required

None

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

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

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



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