Keysight Technologies
N9020B/N9021B MXA and
N9030B PXA Signal Analyzer

Option RT1 and RT2 –
Real Time Spectrum Analysis

KEYSIGHT
TECHNOLOGIES

Installation Note

Notices

Option RT1 and RT2 – Real Time Spectrum Analysis Installation Kit

Products Affected:	N9020B MXA Signal Analyzer N9021B MXA Signal Analyzer N9030B PXA Signal Analyzer
Serial Numbers:	All
To Be Performed By:	(X) Keysight Service Center
	(X) Personnel Qualified by Keysight
	(X) Customer
Estimated Installation Time: Estimated Adjustment and Verification Time:	0.5 Hours 0. Hours

Introduction

This kit contains all of the hardware and instructions required to install either Option RT1 or Option RT2 on a Keysight N9020B/N9021B MXA and N9030B PXA Signal Analyzer.

> **NOTE**
>
> 1. The signal analyzer being upgraded must have one of the wide bandwidth options listed below already installed. To verify that one of these options is present, press **System**, **Show System**, and look under "Options" for the presence of the options listed.
>
>   – For N9020B MXA: Must have N9020B-B85, N9020B-B1A, or N9020B-B1X
>
>   – For N9021B MXA: Must have N9021B-B2X or N9021B-B5X
>
>   – For N9030B PXA: Must have N9030B-B85 or N9030B-B1X or N9030B-B2X or N9030B-B5X.
>
> 2. This option is licensed for one instrument model/serial number combination. The license key will only install on the designated instrument.

Option RT1 and RT2 - Real Time Spectrum Analysis Installation Kit

Contents

Quantity	Description	Keysight Part Number
1	Installation Note	This note
1	Option Upgrade Entitlement Certificate	-----

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 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 similar to the one 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 signal analyzer.

2. Press **System**, **Show System** to display a list of installed options.

3. Verify that the newly installed option number (N9020B-RT1, N9020B-RT2, N9021B-RT1, N9021B-RT2, N9030B-RT1, or N9030B-RT2) appears on the list.

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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