

# Information Only Service Note

Supersedes:  
[NONE]

## N9042B UXA Signal Analyzer

Serial Numbers: ALL

### Selecting Proper CPU Replacement Part Number

The standard CPU used in the N9042B UXA has changed since the product was introduced. The current standard CPU looks like earlier CPUs. Replacing the CPU with the proper part number will ensure that the analyzer is returned to the end-user with the same performance-level CPU as was installed in the analyzer prior to the repair.

### Parts Required:

Refer to Solution / Action below

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#### ADMINISTRATIVE INFORMATION

Calibration Required  
 Calibration NOT Required

PRODUCT LINE: 12  
AUTHOR: BDT

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ADDITIONAL INFORMATION:

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**Situation:**

The standard CPU used in the N9042B UXA has changed since the product was introduced. The current standard CPU looks very similar to the earlier CPUs. Replacing the CPU with the proper part number will ensure that the analyzer is returned to the end-user with the same performance-level CPU as was installed in the analyzer prior to the repair.

There are two CPU replacement assemblies available:

- W1312-60524 CPU Module, Core i7-9850HL, 32GB RAM no HDD
- W1312-60561 CPU Module, Core i7 9850HE, 32GB RAM no HDD

**Solution/Action:**

There are several methods to determine what the currently installed CPU type is depending upon whether or not the CPU is functional and whether or not the X-Series Signal Analyzer measurement application is running.

NOTE: The recommended CPU replacements listed in this service note should not be used to upgrade from one type of CPU to another. The N9094BU Windows Operating System and PC Processor / Drive Upgrade is available to obtain the latest CPU and operating systems. Refer also to [http://www.keysight.com/find/N9042B\\_upgrades](http://www.keysight.com/find/N9042B_upgrades) for more information.

**Method 1: If CPU is functional, but X-Series SA Measurement Application is not Running**

If the CPU is functional to the point that it can display the Windows Desktop, connect a mouse to the analyzer and click Start. Right-click My Computer and select Properties. Look at the text following “Manufactured and Supported by:” Select the appropriate CPU replacement part number based upon the Properties of My Computer as shown in Table 1 below.

Table 1. CPU Identification Based Upon Properties of My Computer

Properties of My Computer	CPU Replacement Part Number
<u>Intel® Core™ i7-9850HL CPU @ 1.90 GHz</u>	W1312-60524
<u>Intel® Core™ i7 CPU 9850HE @ 2.70 GHz</u>	W1312-60561

**Method 2: If X-Series SA Measurement Application is Running**

If the X-Series SA Measurement Application is running, press System, Show, System. Note the Instrument SW Revision. One of the first two entries in the Options list should identify the type of CPU installed. The CPU option will be N9042B-PC8, or N9042B-PCA. Select the appropriate CPU replacement part number based upon the CPU Option and the Instrument SW Revision as shown in Table 2 below.

Table 2. CPU Identification Based Upon CPU Option and Instrument SW Revision

CPU Option	Instrument SW Revision	CPU Replacement Part Number
N9042B-PC8 <u>Intel® Core™ i7-9850HL CPU @ 1.90, 32 GB</u>	Any	W1312-60524
N9042B-PCA Intel® Core™ i7 CPU 9850HE @2.70 GHz, 32 GB	Any	W1312-60561

**Method 3: If CPU is Not Functional**

If the CPU is not functional, it will be necessary to determine the installed CPU based upon the part number of the currently installed CPU.

Start with the CPU installed in the UXA. View the CPU from the rear panel of the UXA. The CPU part number, which will begin with “W1312”, should appear on a label near the LAN connector. Select the appropriate CPU replacement part number based upon the CPU part number as shown in Table 3 below.

Table 3. CPU Identification Based Upon CPU Part Number

CPU Part Number	CPU Replacement Part Number
W1312-60524	W1312-60524
W1312-60561	W1312-60561

Revision History:

Date	Service Note Revision	Author	Reason for Change
29 May 2024	01	Brian Torr	As Published