

Information Only Service Note

Supersedes:
[NONE]

N9032B PXA Signal Analyzer

Serial Numbers: ALL

Selecting Proper CPU Replacement Part Number

The standard CPU used in the N9032B PXA 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

ADMINISTRATIVE INFORMATION

Calibration Required
 Calibration NOT Required

PRODUCT LINE: 12
AUTHOR: BDT

ADDITIONAL INFORMATION:

Situation:

The standard CPU used in the N9032B PXA 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/n9032b_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 N9032B-PC8, or N9032B-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 |
|--|------------------------|-----------------------------|
| N9032B-PC8 <u>Intel® Core™ i7-9850HL CPU @ 1.90, 32 GB</u> | Any | W1312-60524 |
| N9032B-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 PXA. View the CPU from the rear panel of the PXA. 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 |
| | | | |
| | | | |
| | | | |