N9000A-03

S E R V I C E   N O T E

Supersedes:
NONE

N9000A CXA Signal Analyzer

Serial Numbers: ALL

Selecting Proper CPU and Disk Drive Replacement Part Number

Parts Required:

P/N	Description	Qty.
NONE		

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:
INFORMATION ONLY

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ADDITIONAL INFORMATION:

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Situation:
The standard CPU and hard disk used in the N9000A CXA has changed since the product was introduced. Replacing the CPU and hard disk with the proper part number will ensure that the analyzer is returned to the end-customer with the same performance level as was installed in the analyzer prior to the repair.

There are two CPU replacement assemblies available:
- N9020-60031 KIT, CPU BOARD REPLACEMENT W/O HARD DRIVE 2GB RAM
- N9020-60115 KIT, CELERON PROCESSOR BOARD REPLACEMENT

There are two disk drive replacement parts available:
- N9020-60066 KIT, HARD DISK DRIVE REPLACEMENT
- N9020-60125 SOLID STATE DRIVE REPLACEMENT

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.

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 XP 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 & Disk Drive Identification Based Upon Properties of My Computer

Properties of My Computer	CPU Replacement Part Number	Disk Drive Replacement Part Number
Intel® Pentium ® M processor 1600 MHz	N9020-60031	N9020-60066
Intel ® Celeron ® M CPU 440 @ 1.86 GHz	N9020-60115	N9020-60125

Method 2: If X-Series SA Measurement Application is Running
If the X-Series SA Measurement Application is running, press System, Show, System. One of the first two entries in the Options list should identify the type of CPU installed. The CPU option will be N9000A-PC1 or N9000A-PC3. Select the appropriate CPU or disk drive replacement part number based upon the CPU Option as shown in Table 2 below.

Table 2. CPU Identification Based Upon CPU Option

CPU Option	CPU Replacement Part Number	Disk Drive Replacement Part Number
N9010A-PC1 Intel® Pentium ® M processor 1600 MHz	N9020-60031	N9020-60066
N9010A-PC3 Intel ® Celeron ® M CPU 440 @ 1.86 GHz	N9020-60115	N9020-60125

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 physical attributes of the CPU assembly itself.

Start with the CPU installed in the CXA. View the CPU from the rear panel of the CXA and note the position of the GPIB connector relative to the USB connectors. If the GPIB connector is to the right of the USB connectors, the installed CPU is the Intel ® Pentium ® M Processor and the CPU replacement part number is N9020-60031, and the disk drive replacement part number is N9020-60066.

If the CPU has the GPIB connector to the left of the USB connectors, the installed CPU is Intel ® Celeron ® M CPU 440 @ 1.86 GHz and the CPU replacement part number is N9020-60115, and the disk drive replacement part number is N9020-60125.