

N6841A-02

Information Only Service Note

Supersedes:
NONE

N6841A RF Sensor

Serial Numbers: US20000100 (first production serial number) to US56120100

Note: Serial numbers from US20000100 to US50310599 also require N6841AF-UG1 upgrade

Memory Upgrade Available

Parts Required:

Part Number	Description	Qty.
0960-3306	GPS Module	1
950-5798	Kingston 64 GB Micro SD	1
N6841-40604	Poly-Iron absorber	1
N6841-44701	Foam spacer	1
9140-5512	Inductor	11
0161-1396	Capacitor	1
0160-8767	Capacitor	1
0161-1307	Capacitor	2
0470-3023	Dow Corning 3145 Clear RTV	dollop
9223-1022*	Desiccant (Moisture Removal)	1

**(This item is only sold in a bucket of 1,250 desiccant bags, only one is required for each sensor)*

ADMINISTRATIVE INFORMATION

Calibration Required
 Calibration NOT Required

PRODUCT LINE: WN
AUTHOR: DMT

ADDITIONAL INFORMATION:

This upgrade must be performed at the factory. The N6841A is a sealed product and cannot be serviced at a Keysight Service Center or by the Customer.

Situation:

This upgrade is for adding USB memory inside the sensor. This memory is used to run Embedded Application inside the N6841A RF Sensor. Once the memory is installed, you will want to order N6841AF-EFP (embedded apps capability) to make use of the memory.

N6841A RF Sensors with serial numbers starting from US56120101 already ship with the USB memory and do not need the upgrade.

For N6841A RF Sensors prior to US50310599, you must also order the N6841A-UG1 upgrade. Details of this upgrade can be found here: <http://literature.cdn.keysight.com/litweb/pdf/N6841A-01.pdf>

NOTE: When the N6841A is returned for these upgrades, any required repairs will be performed for an additional fee.

Solution/Action:

Order the N6841AF-UG2 upgrade and return your N6841A to your local Keysight service center and they will return it to the factory to have the upgrade performed.

N6841AF-UG2

- Adds 64 GB USB memory to support Embedded Applications (N6841A-EFP)
- Replace the GPS module inside the N6841A.

Requirements:

- Firmware version (or greater): REL 2.0.5, BUILD 2853, FPGA 12071217
- Sensor Management Software Version: 2.0.5.397 (or greater)
- Software, which includes a firmware update can be downloaded from the link below:
www.keysight.com/find/N6841A-SW

N6841AF-UG2 - Upgrade details:

- Inspect and replace gaskets that show signs of moisture damage or corrosion.
- Add poly-iron absorber and foam spacer (N6841-40604 and N6841-44701)
- Inspect N6841-66912 PCA inductors for proper epoxy on PCA:
 - 9140-5512: L15, L18, L19, L26, L31, L33, L36, L40, L58, L72 and L94
- Inspect N6841-66922 PCA capacitors for cracking:
 - 0161-1396: C520 - 0160-8767: C521 - 0161-1307: C522 & C523
- Replace GPS module with the latest (0960-3306)
- Add 64 Giga-Byte USB RAM to processor module inside the N6841A and seal with RTV.
- Update label on N6841-66912 to "Rev 009"
- Replace desiccant
- Add "Updated To 5612" label next to the N6841A serial number label.
- Update firmware to latest release.

How can you tell if your unit has already been upgraded?

- If your N6841A has a sticker on it next to the serial number tag with "Updated To 5612"

Revision History:

Date	Rev	Author	Reason for Change
15 Dec 2016	01	Dave Tripp	As Published