

**What's new with N4960A FW 2.40?**

- Support for Keysight branded instruments.
- Miscellaneous bug fixes and improvements.

**Do I already have FW 2.40 installed?**

The current N4960A controller FW revision can be checked from the front panel:

Main Menu -> System Menu -> Instrument Info -> FW

**Will my system support FW 2.40?**

N4960A FW version 2.40 is expected to work with older versions of PG/ED remote head FW; however, it is officially supported only with the latest remote head FW versions:

N4951A: FW 03.01.00.00

N4951B: FW 02.00.00.04

N4952A: FW 03.01.00.00

In order to benefit from the most recent bug fixes and improvements, and to eliminate any potential incompatibilities, it is recommended to upgrade both the N4960A controller and all N4951A/B, N4952A remote heads to the latest FW.

It is recommended to use the latest version of the N4980A Multi-instrument BERT Software ([www.keysight.com/find/N4980A](http://www.keysight.com/find/N4980A)) for the FW upgrades.

**Do I already have the latest PG/ED FW installed?**

PG and ED FW revisions can be checked from the front panel of the N4960A controller with the remote heads attached:

Main Menu -> System Menu -> Jit Head Info -> FW

Main Menu -> System Menu -> Dly Head Info -> FW

Current FW for the PG and ED remote heads can be found on-line:

[www.keysight.com/find/N4951A](http://www.keysight.com/find/N4951A)

[www.keysight.com/find/N4951B](http://www.keysight.com/find/N4951B)

[www.keysight.com/find/N4952A](http://www.keysight.com/find/N4952A)

### **What's new with N4960A FW 2.20?**

- Fixes a marginal PJ jitter injection issue at clock frequencies between 3 to 4 GHz (6 to 8 Gb/s).

Note: Some units exhibited high residual jitter with the high deviation (PJ) jitter source enabled.

### **Do I already have FW 2.20 installed?**

The current N4960A controller FW revision can be checked from the front panel:

Main Menu -> System Menu -> Instrument Info -> FW

Latest FW for the N4960A controller can be found on-line:

[www.agilent.com/find/N49560A](http://www.agilent.com/find/N49560A)

### **Will my system support FW 2.20?**

N4960A FW version 2.20 is expected to work with older versions of PG/ED remote head FW; however, it is officially supported only with the latest remote head FW versions:

N4951A: FW 03.01.00.00

N4951B: FW 02.00.00.04

N4952A: FW 03.01.00.00

In order to benefit from the most recent bug fixes and improvements, and to eliminate any potential incompatibilities, it is recommended to upgrade both the N4960A controller and all N4951A/B, N4952A remote heads to the latest FW.

It is recommended to use the latest version of the N4980A Multi-instrument BERT Software ([www.agilent.com/find/N4980A](http://www.agilent.com/find/N4980A)) for the FW upgrades.

### **Do I already have the latest PG/ED FW installed?**

PG and ED FW revisions can be checked from the front panel of the N4960A controller with the remote heads attached:

Main Menu -> System Menu -> Jit Head Info -> FW

Main Menu -> System Menu -> Dly Head Info -> FW

Latest FW for the PG and ED remote heads can be found on-line:

[www.agilent.com/find/N4951A](http://www.agilent.com/find/N4951A)

[www.agilent.com/find/N4951B](http://www.agilent.com/find/N4951B)

[www.agilent.com/find/N4952A](http://www.agilent.com/find/N4952A)

### **What's new with N4960A FW 2.10?**

- Support for the latest N4951B High Amplitude and De-emphasis Pattern Generator remote head calibration. The calibration method for the N4951B pattern generators has been improved to optimize waveform performance. This has changed the format of calibration tables and N4960A FW 2.10 is required for proper operation.

Note: N4951B pattern generator heads are only supported on Agilent N4960A controllers with serial numbers higher than US53083001, otherwise an N4960A controller upgrade is required. Contact your Agilent representative for additional information.

- Miscellaneous bug fixes and improvements.

### **Do I already have FW 2.10 installed?**

The current N4960A controller FW revision can be checked from the front panel:

Main Menu -> System Menu -> Instrument Info -> FW

### **Will my system support FW 2.10?**

Yes. With the current version of the N4980A Multi-Instrument BERT software ([www.agilent.com/find/N4980A](http://www.agilent.com/find/N4980A)), it is now possible to upgrade the FW of N4951A, N4951B, and N4952A PG/ED remote heads, eliminating any potential incompatibilities between newer N4960A FW and older PG/ED FW. It is recommended to upgrade both the N4960A controller and all N4951A/B, N4952A remote heads to the latest FW.

### **Do I already have the latest PG/ED FW installed?**

Current FW for the PG and ED remote heads can be found on-line:

[www.agilent.com/find/N4951A](http://www.agilent.com/find/N4951A)

[www.agilent.com/find/N4951B](http://www.agilent.com/find/N4951B)

[www.agilent.com/find/N4952A](http://www.agilent.com/find/N4952A)

PG and ED FW revisions can be checked from the front panel of the N4960A controller with the remote heads attached:

Main Menu -> System Menu -> Jit Head Info -> FW

Main Menu -> System Menu -> Dly Head Info -> FW

### **What's new with N4960A FW 2.02?**

- Support for new N4951B High Amplitude and De-emphasis Pattern Generator remote heads.  
Note: N4951B pattern generator heads are only supported on Agilent N4960A controllers with serial numbers higher than US53083001, otherwise an N4960A controller upgrade is required. Contact your Agilent representative for additional information.
- Support for two Pattern Generator remote heads on one Controller.
- Delay phase shift resolution dramatically improved.
- Error Detector Auto-Align time significantly reduced.
- Miscellaneous bug fixes and improvements.

### **Do I already have FW 2.02 installed?**

The current N4960A controller FW revision can be checked from the front panel:

Main Menu -> System Menu -> Instrument Info -> FW

### **Will my system support FW 2.02?**

N4960A FW 2.02 only supports use with Pattern Generator (PG) and Error Detector (ED) heads with the following FW revisions:

PG: FW 03.00.00.14 or greater

ED: FW 03.00.00.15 or greater

PG and ED FW revisions can be checked from the front panel of the N4960A controller with the remote heads attached:

Main Menu -> System Menu -> Jit Head Info -> FW

Main Menu -> System Menu -> Dly Head Info -> FW