

Keysight E6680A Option Upgrades

Frequency Range Upgrade E6680AU-FU1

Analysis Bandwidth Upgrades E6680AU-BU1, BU2, BU3

E6680AU-FU1: upgrade to 380-7300 MHz

E6680AU-BU1: upgrade from 200 to 400 MHz

E6680AU-BU2: upgrade from 400 to 800 MHz

E6680AU-BU3: upgrade from 200 to 800 MHz

Notices

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Frequency or Bandwidth Upgrade to an Existing TRX Module

Products Affected:	E6680A Wireless Test Set
Serial Numbers:	All
Options:	
To Be Performed By:	<input checked="" type="checkbox"/> Keysight Service Center <input checked="" type="checkbox"/> Personnel Qualified by Keysight <input checked="" type="checkbox"/> Customer (within the first year of ownership)
Estimated Installation Time:	30 minutes
Estimated Verification Time:	5 minutes

Introduction

This installation note contains all instructions required to install either a Frequency Option upgrade or an Analysis Bandwidth Option upgrade on an M9414A TRX module which is installed in the E6680A.

NOTE

Be aware of the following issues before installing the upgrade.

1. At the time of manufacture the hardware related to this option was fully adjusted and the option performance was verified to be within its warranted specifications. Within one year of the initial calibration date of the instrument this option is fully calibrated with no further adjustment or verification testing.

To determine the initial calibration date, locate the original calibration certificate that was shipped with the E6680A instrument at the time of purchase. The Date of Calibration is printed on the original calibration certificate.

No factory test data is available for this option. If you require test data for this option, then a full calibration is required after installation of this option.

2. If this TRX module has been adjusted as part of a repair or calibration during its first year, or if the TRX module is more than one year old, additional adjustments and performance verification tests are required to ensure that this newly installed option is functioning properly.
3. ETMS software and test equipment is required for adjustments and for performance verification testing. Information on how to obtain these calibration services can be found at: www.keysight.com/find/calibration
4. This option upgrade is licensed for one M9414A TRX module. The license key will only install on the designated PC HOST ID and Serial number TRX module.

Contents of the Upgrade Kit

The upgrade kit does not include any hardware; the content of the kit consists only of:

- This installation note
- An Option Upgrade Entitlement Certificate (E6640-90024).

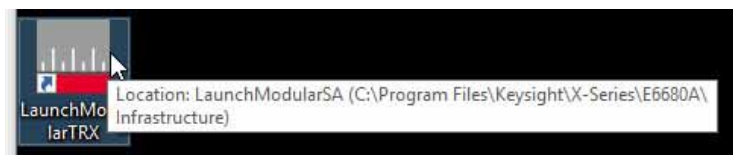
Installation Procedure

This procedure adds the option to one TRX module within the E6680A (there can be as many as four of these modules in the test set, each of which would require its own license to be upgraded in this way).

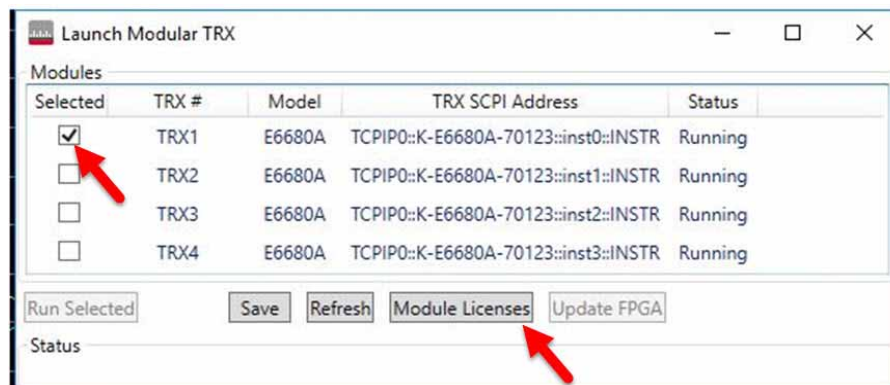
- Step 1.** The application windows (such as TRX1), which are started automatically at bootup, must be shut down before beginning the installation. Close these windows, including any that are currently minimized.



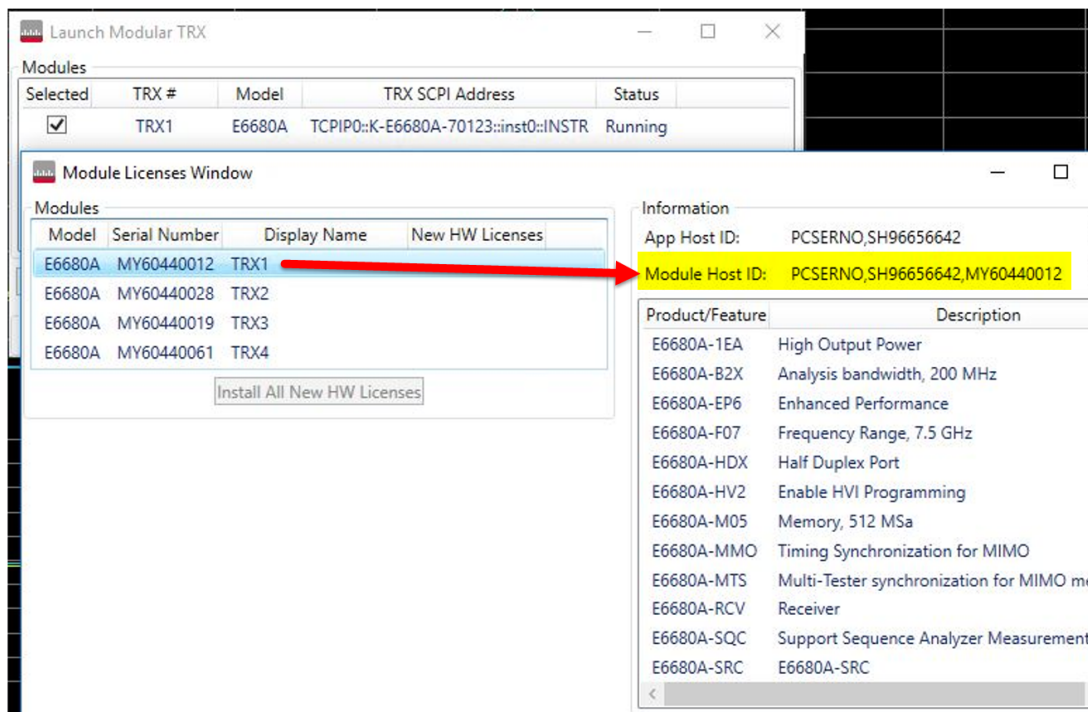
- Step 2.** On the E6680A desktop, start the Modular TRX interface by double clicking on the **Launch Modular TRX** icon:



- Step 3.** The **Launch Modular TRX** window below will be displayed. Select the **TRX** which will be upgraded. Select the **Module Licenses** button.



Step 4. The **Module Licenses Window** is displayed, with the **Module Host ID** information for the selected TRX shown on the right side of the display.



Step 5. Copy the Host ID information, which you will use in a later step to obtain your license from the Keysight Software manager web site:

<https://www.keysight.com/find/softwaremanager>

Step 6. After logging into your Keysight account at the above web address, click on "Add another entitlement certificate...".

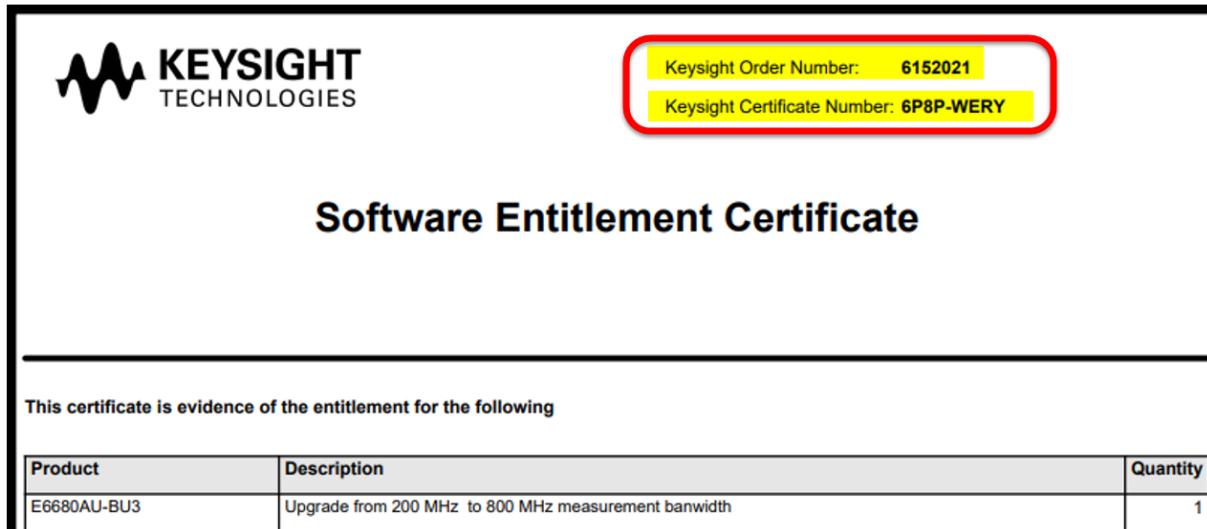


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Keysight Software Manager

You can add a new certificate
 ➔ Add another entitlement certificate to your profile

Step 7. Find the order number and certificate number from your Software from the Entitlement Certificate.



KEYSIGHT TECHNOLOGIES

Keysight Order Number: **6152021**

Keysight Certificate Number: **6P8P-WERY**

Software Entitlement Certificate

This certificate is evidence of the entitlement for the following

Product	Description	Quantity
E6680AU-BU3	Upgrade from 200 MHz to 800 MHz measurement bandwidth	1

Step 8. Add the order number and certificate number in the appropriate fields in the Software Manager window and click **Continue**.

Keysight Software Manager : Add Certificate

① ————— ②
 Enter Certificate Review and Submit

Enter your certificate information

Order Number

Certificate Number

Certificates already in your profile:

Order Number	Certificate Number
01192017	JDYH-77JC
0362018	3VCD-3EQK
1005586395	J79V-P277
1012015	K6HW-VW69
10152018	EDM9-GZWS
10222018	C38J-32D5
10242018	QZH3-BAKY
10312017	32V3-6VKT
1062017	HVZD-ED5Q

Cancel Continue >

Step 9. Click Add Certificate.

Add this certificate to your profile

Licenses on Certificate

Description	Version	Quantity Purchased	Quantity Remaining
E6680AU-BU3 Upgrade from 200 MHz to 800 MHz measurement bandwidth	-	1	1
E6680AU-FU1 Upgrade Frequency range to 380 MHz to 7.3 GHz	-	1	1

After adding your certificate, you will be able to get your licenses.

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Add Certificate

Step 10. Enter the Module Host ID which you obtained earlier from the Module Licenses Window. Select the license or licenses to be assigned to the module, and click Assign Licenses.

Select the host to assign licenses to

Add a new host...

Enter new host information:

PXI and AXIe Hardware Options Upgrade :

PCSERNO.SH96656642.MY60440012

Example: PCSERNO,ED24797275,US12345678

PCSERNO,ED24797275 - Keysight License Manager Host ID.

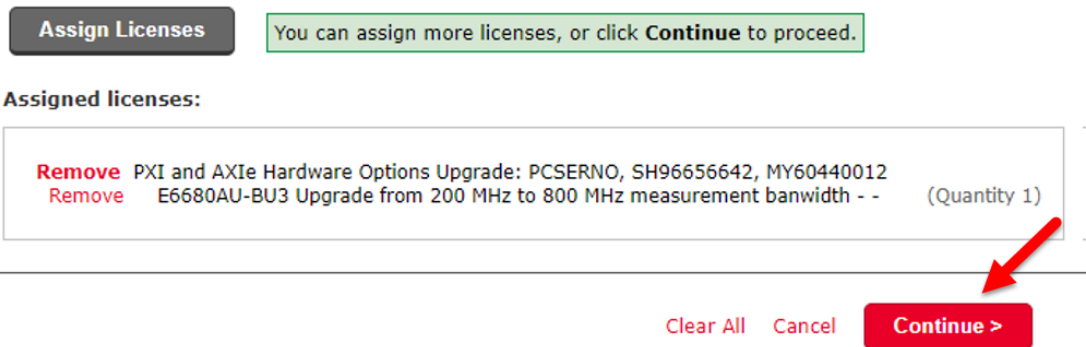
US12345678 - Serial Number of the module that will be upgraded.

Select the licenses to assign

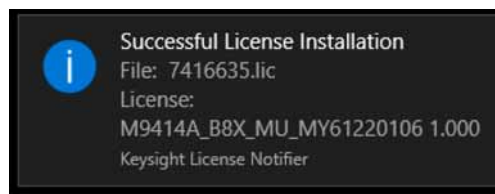
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Line Number	License	Version	Quantity Available	Quantity to Assign
<input checked="" type="checkbox"/>			E6680AU-BU3 Upgrade from 200 MHz to 800 MHz measurement bandwidth	-	1	1
<input type="checkbox"/>			E6680AU-FU1 Upgrade Frequency range to 380 MHz to 7.3 GHz	-	1	1

Assign Licenses

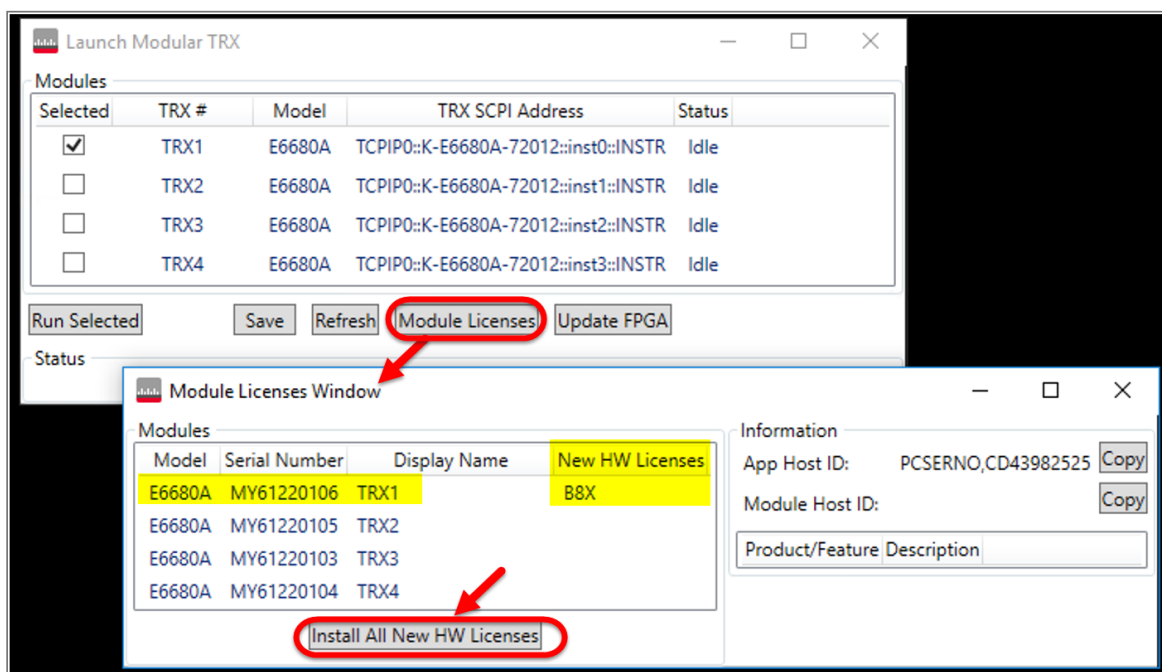
Step 11. Click **Continue** to proceed. The requested license will be sent to you by e-mail.



Step 12. Copy the License key from the E-mail to a USB memory device. Then connect the USB memory device to a USB port on the E6680A. The license will be automatically consumed by the Keysight Software Manager (as indicated by the notification which appears on the screen).



Step 13. Once the license is installed in Keysight License Manager, the license will appear in the Module Licenses Window. Select **Install All New HW Licenses**. (After you install the license, it will be removed from the list of new license.)



Step 14. Restart the E6680A application software and check the **Show System** screen for the newly installed option. (In the example illustrated below, Option E6680A-B8X has been added.)

< System		System Information
Keysight Technologies		
Keysight E6680A		Keysight E6680A Wireless Test Set
Product Number		E6680A
Serial Number		MY60370129
S/W Release Name		2021 Update 1.0
Instrument S/W Revision		E.29.20_B0005
Revision Date		5/6/2021 2:26:44 PM
Computer System		Windows 10
Computer Name		K-E6680A-70129
LAN Port1		
IP Address		146.208.31.48
IPv6 Address		
Link-Local IPv6 Address		fe80:f968:fb95:f059:d36d%2
LAN Port2		--Down--
Host ID		PCSERNO,EH36636773
mDNS Enabled		Yes
mDNS Host Name		K-N9020A-3000-6
mDNS Service Name		Keysight E6680A Wireless Test Set - MY60370129
Option	Name / Description	Option Version
E6680A-PCX	Intel(R) Core(TM) i7-4700EQ CPU @ 2.40GHz, 16 GB	
E6680A-SSD	INTEL SSDSC2KB240G8	
E6680A-W10	Microsoft Windows 10 Enterprise 2016 LTSB, 64 bit OS	
E6680A_250	Waveform License 50-pack	---
E6680A_251	Waveform License 50-pack	---
E6680A_252	Waveform License 50-pack	---
E6680A_MSS	Uplink Measurement Capability	---
E6680A-1EA	High Output Power	---
E6680A-B8X	Analysis bandwidth, 800 MHz	---
E6680A-EP6	Enhanced Performance	---
E6680A-F07	Frequency Range, 7.5 GHz	---

