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Hardware Upgrades for 89600S VXI Systems

Hardware Upgrades

89600 VXI hardware systems are flexible and widely configurable for many signal analysis applications. To upgrade your 89600 VXI hardware system:

1. You must use this guide to help you find the individual parts required. You must order all the specified parts since upgrade kits for the 89600 VXI hardware systems are not offered.
2. You must perform the system assembly and upgrade yourself, by installing the correct VXI modules in the appropriate VXI mainframe. Arrangements can be made for Keysight service organizations to provide consulting services to aid in the assembly of your system.

All purchased VXI modules and mainframes will have an individual calibration and/or performance test. Therefore, any system using properly calibrated modules will meet its specified performance. If you feel it is important to verify the performance of your upgraded system, you may send it to your local Keysight Service Center and request a System Verification Test.

Internal Hardware Upgrades

Within the configuration options of 89600 VXI hardware systems, there are four major classes of systems, designated by frequency range:

- The **89610** is a one- or two-channel baseband VSA system, offering analysis from DC to 40 MHz. An 89610 system features any of these VXI modules in the system: 89606A, 89606B, E1438A, E1438C.
- The **89611** is a one- or two-channel 70 MHz IF VSA system, offering analysis from DC to 36 and 52 to 88 MHz. An 89611 system does not contain any E273xx modules and *ONLY* features these VXI modules in the system: E8491B, 89605B, and E1439A/C.
- The **89640** is a one- or two-channel RF VSA system, offering analysis from DC to 2.7 GHz. An 89640 system features either of these VXI modules in the system: E2730A or E2730B.
- The **89641** is a one- or two-channel RF VSA system, offering analysis from DC to 6.0 GHz. An 89641 system features either of these VXI modules in the system: E2731A or E2731B.

To upgrade your 89600 VSA 1-channel or 2-channel system to any of the options below, you must purchase the individual parts that are listed in the table below.

89600S Internal Hardware Upgrade Table[1,2]

89600 System/ Number of Channels	If You Have These Components In Your Existing 89600 System:	Add These Parts To Upgrade Your System To Feature Two Channel Baseband Capability:	Add These Parts To Upgrade Your System To Feature One 70 MHz IF Channel Capability:	Add These Parts To Upgrade Your System To Feature Two 70 MHz IF Channel Capability:	Add These Parts To Upgrade Your System To Feature One 2.7 GHz RF Channel Capability:	Add These Parts To Upgrade Your System To Feature Two 2.7 GHz RF Channel Capability:	Add These Parts To Upgrade Your System To Feature One 6.0 GHz RF Channel Capability:	Add These Parts To Upgrade Your System To Feature Two 6.0 GHz RF Channel Capability:
89610 / 1	**E8408A; E8491B; 89606A OR 89606B; E1438A**	89600SU-012	89600SU-011; 89600SU-313	89600SU-011 (qty 2); 89600SU-313; 89600S-610	89600SU-040; 89600SU-313	89600SU-040 (qty 2); 89600SU-313; 89600S-642	89600SU-041; 89600SU-313	89600SU-041 (qty 2); 89600SU-313; 89600S-642
89610 / 1	**E8408A; E8491B; 89606B; E1438C**	89600SU-012	89600SU-011; 89600SU-313	89600SU-011 (qty 2); 89600SU-313; 89600S-610	89600SU-040; 89600SU-313	89600SU-040 (qty 2); 89600SU-313; 89600S-642	89600SU-041; 89600SU-313	89600SU-041 (qty 2); 89600SU-313; 89600S-642
89610 / 2	**E8408A; E8491B; 89606A OR 89606B; E1438A (qty 2) OR E1438C (qty 2)**	n/a	89600SU-011; 89600SU-313	89600SU-011 (qty 2); 89600SU-313; 89600S-610	89600SU-040; 89600SU-313	89600SU-040 (qty 2); 89600SU-313; 89600S-642	89600SU-041; 89600SU-313	89600SU-041 (qty 2); 89600SU-313; 89600S-642
89611 / 1	**E8408A; E8491B; 89605B; E1439A**	89600SU-011; 89600SU-313; 89600S-610	n/a	89600SU-011; 89600SU-313; 89600S-610	89600SU-330	89600SU-040; 89600SU-330; 89600SU-313; 89600S-642	89600SU-331	89600SU-041; 89600SU-331; 89600SU-313; 89600S-642
89611 / 1	**E8408A; E8491B; 89605B; E1439C**	89600SU-011; 89600SU-313; 89600S-610	n/a	89600SU-011; 89600SU-313; 89600S-610	89600SU-330	89600SU-040; 89600SU-330; 89600SU-313; 89600S-642	89600SU-331	89600SU-041; 89600SU-331; 89600SU-313; 89600S-642
89611 / 2	**E8403A; E8491B; 89605B (qty 2); E1439A (qty 2)**	n/a	n/a	n/a	89600SU-330	89600SU-330 (qty 2); 89600S-642	89600SU-331	89600SU-331 (qty 2); 89600S-642
89611 / 2	**E1421B; E8491B; 89605B (qty 2); E1439C (qty 2)**	n/a	n/a	n/a	89600SU-330	89600SU-330 (qty 2); 89600SU-313; 89600S-642	89600SU-331	89600SU-331 (qty 2); 89600SU-313; 89600S-642
89640 / 1	**E8408A; E8491B; 89605A; E2730A; E1439A**	89600SU-011; 89600SU-313; 89600S-610	n/a	89600SU-011; 89600SU-313; 89600S-610	n/a		89600SU-331	89600SU-041; 89600SU-331; 89600SU-313; 89600S-642; 89600SU-005
89640 / 1	**E8408A; E8491B; 89605B; E2730A; E1439A OR E1439C**	89600SU-011; 89600SU-313; 89600S-610	n/a	89600SU-011; 89600SU-313; 89600S-610	n/a	89600SU-040; 89600SU-330; 89600SU-313; 89600S-642	89600SU-331	89600SU-041; 89600SU-331; 89600SU-313; 89600S-642
89640 / 1	**E8408A; E8491B; 89605B; E2730B; E1439C**	89600SU-011; 89600SU-313; 89600S-610	n/a	89600SU-011; 89600SU-313; 89600S-610	n/a	89600SU-040; 89600SU-313; 89600S-642	89600SU-331	89600SU-041; 89600SU-331; 89600SU-313; 89600S-642
89640 / 2	**E8403A; E8491B; 89605B (qty 2); E2730A; E1439A (qty 2)**	n/a	n/a	n/a	n/a	89600SU-330 (qty 2); 89600S-642	89600SU-331	89600SU-041; 89600SU-331; 89600S-642
89640 / 2	**E1421B; E8491B; 89605B (qty 2); E2730A; E1439C (qty 2)**	n/a	n/a	n/a	n/a	89600SU-330 (qty 2); 89600SU-313; 89600S-642	89600SU-331	89600SU-041; 89600SU-331; 89600SU-313; 89600S-642
89640 / 2	**E1421B; E8491B; 89605B (qty 2); E2730B; E1439C (qty 2)**	n/a	n/a	n/a	n/a	89600SU-330; 89600SU-313; 89600S-642	89600SU-331	89600SU-331; 89600SU-313; 89600S-642
89640 / 2	**E8403A; E8491B; 89605B (qty 2); E2730B (qty 2); E1439C (qty 2)**	n/a	n/a	n/a	n/a	n/a	89600SU-331	89600SU-331 (qty 2)
89641 / 1	**E8408A; E8491B; 89605A; E2731A; E1439A**	89600SU-011; 89600SU-313; 89600S-610	n/a	89600SU-011; 89600SU-313; 89600S-610	n/a	89600SU-040; 89600SU-330; 89600SU-313; 89600S-642	n/a	89600SU-041; 89600SU-331; 89600SU-313; 89600S-642; 89600SU-005
89641 / 1	**E8408A; E8491B; 89605B; E2731A; E1439A OR E1439C**	89600SU-011; 89600SU-313; 89600S-610	n/a	89600SU-011; 89600SU-313; 89600S-610	n/a	89600SU-040; 89600SU-330; 89600SU-313; 89600S-642	n/a	89600SU-041; 89600SU-331; 89600SU-313; 89600S-642
89641 / 1	**E8408A; E8491B; 89605B; E2731B; E1439C**	89600SU-011; 89600SU-313; 89600S-610	n/a	89600SU-011; 89600SU-313; 89600S-610	n/a	89600SU-040; 89600SU-330; 89600SU-313; 89600S-642	n/a	89600SU-041; 89600SU-313; 89600S-642
89641 / 2	**E8403A; E8491B; 89605B (qty 2); E2731A; E1439A (qty 2)**	n/a	n/a	n/a	n/a	89600SU-330 (qty 2); 89600S-642	n/a	89600SU-331 (qty 2); 89600S-642
89641 / 2	**E1421B; E8491B; 89605B (qty 2); E2731A; E1439C (qty 2)**	n/a	n/a	n/a	n/a	89600SU-313; 89600SU-330 (qty 2); 89600S-642	n/a	89600SU-313; 89600SU-331 (qty 2); 89600S-642
89641 / 2	**E1421B; E8491B; 89605B (qty 2); E2731B; E1439C (qty 2)**	n/a	n/a	n/a	n/a	89600SU-313; 89600SU-330 (qty 2); 89600S-642	n/a	89600SU-313; 89600SU-331; 89600S-642
89641 / 2	**E8403A; E8491B; 89605B (qty 2); E2731B (qty 2); E1439C (qty 2)**	n/a	n/a	n/a	n/a	n/a	n/a	n/a

[1]E1438C-mem indicates that you should configure your memory according to your Serial number. All memory sizes should match if you're using more than one. For more information, click here.

[2]E1439C-mem indicates that you can order one of the following: E1439C-144 (144MB), E1439C-288 (288MB), E1439C-001 (1152MB). Memory sizes should match if you're ordering more than one.

External Hardware Upgrades

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You can purchase rackmount kits for your 89600 VXI System. There are different kits available for the different types of VXI mainframes. You can find more information below.

89600 External Hardware Upgrade								
VXI Mainframe model	**Description**	**Order As**	**Installation Note**	**Upgrade Contents**	**Additional Requirements**	**Incompatible with**	**Installed By**	**Installation Time (Hours)**
E8408A	Rack Mount Kit	E8408-80923	Available online	Kit	E3663AC	None	Customer	1
E8408A	Rack Slide Kit	E8408-80923	Available online	Kit	1494-0413[1]	None	Customer	1
E1421B	Flange Kit	5063-9216	Available online	Kit	E3665A[2], 1494-0060[1,3]	None	Customer	1
E1421B	Handle and Flange Kit	5063-9223	Available online	Kit	E3665A[2], 1494-0060[1,3]	None	Customer	1
E1421B	Recess Rack Mount Kit	E1421-80916	Available online	Kit	E3665A[2]	1494-0060	Customer	1
E1421B	Smoked Acrylic Door	E1421-61205	N/A	Kit	N/A	None	Customer	1
E8403A	Standard Rack Mount Adapter Kit	E8400-60003	E8401-90000	Kit	E3664AC[2], 1494-0411[3]	None	Customer	1
E8403A	Flush Rack Mount Adapter Kit	E8400-60004	E8401-90000	Kit	E3664AC[2]	None	Customer	1
E8403A	VXI *plug&play*Compliant Adapter Kit	E8400-60005, E8400-60008[4]	E8401-90000	Kit	E3663AC[2], 1494-0411[3]	None	Customer	1
E8403A	Tinted Acrylic Door	E8400-69301	N/A	Kit	N/A	None	Customer	1

[1]For non-Keysight cabinets, must add End Brackets, 1494-0061
[2]Rail Kit only - supports mainframe in a fixed position in the rack.
[3]Slide Kit only - supports mainframe to slide in and out of rack.
[4]For non-Keysight cabinets

Documents & Downloads

How do I find out the serial number and upgrade details for my E1438C VXI module?
See more details inside.
FAQ *2012-02-19*

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