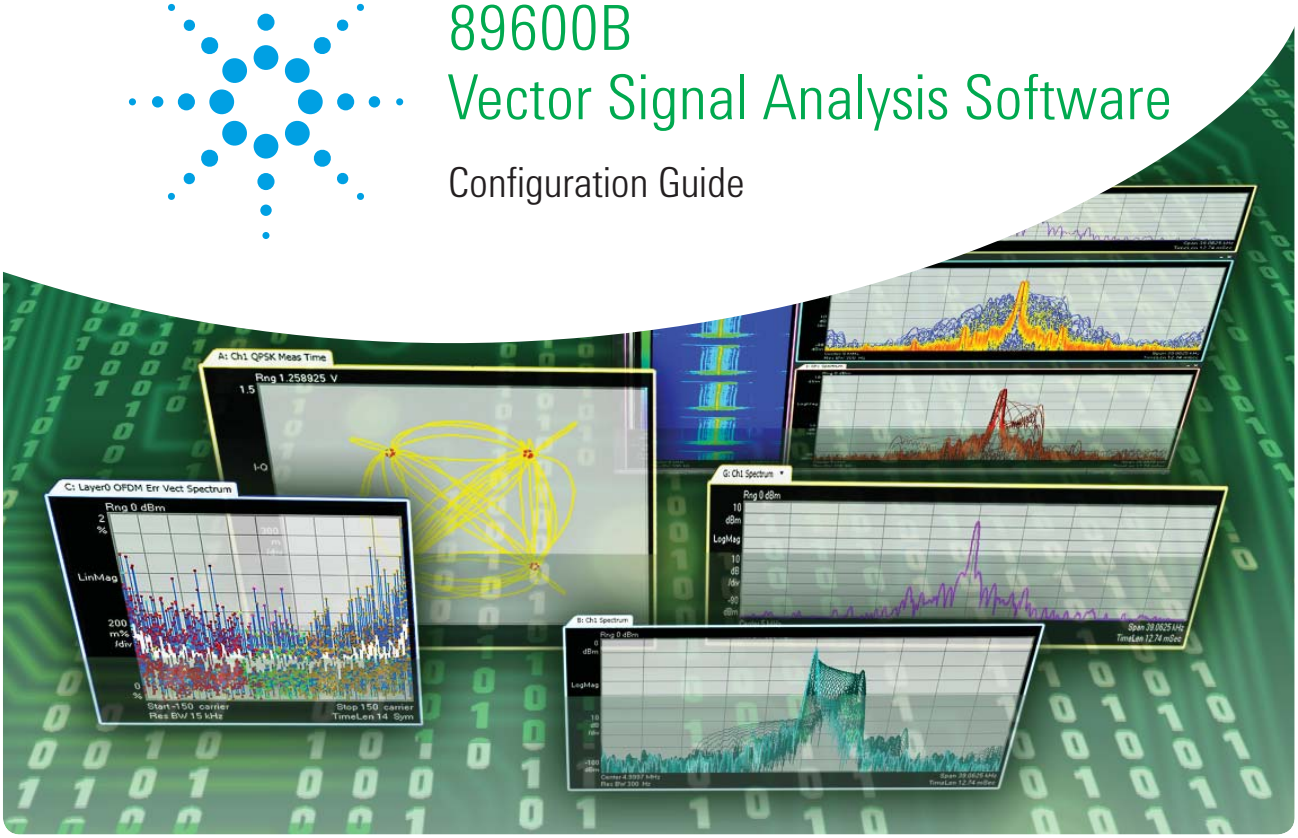
89600B
Vector Signal Analysis Software

Configuration Guide



See through the complexity

This 89600B VSA configuration guide will help you configure your new or existing 89600B VSA with the measurement options, licenses, and update service subscriptions you need.

UP GRADE

You Can Upgrade!

Options can be added anytime after initial purchase

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Configure your New 89600B VSA Software

This step-by-step process will help you configure your new 89600B VSA software when making your initial order. See the Upgrade section to add any of these options after initial purchase.

Step 1: Select desired license

Choose from two license types:

- **PC/instrument license:** Order 89601B if the software license will reside on a PC/instrument. The license can be transferred to another PC/instrument at any time.
- **Floating license:** Order 89601BN if the software license will reside on a server to be accessed by multiple users, one at a time.

Step 2: Select required options

Description	Model-option		Notes
	PC/instrument license	**Floating license[1]**	
Basic VSA	89601B-200	89601BN-200	Provides basic time and spectrum measurements, powerful displays, data recording and playback, and more
Hardware connectivity	89601B-300[2]	89601BN-300[2]	Connectivity to over 30 Agilent instruments, including signal/spectrum analyzers, oscilloscopes, logic analyzers, and more

1. Floating license allows multiple Options 200 and 300 in a network. The Option 200 quantity determines the number of simultaneous users.
2. Not required if you will be using Option 105 Link to ADS/SystemVue (ADS functionality available July 2011) and do not plan on connecting to hardware.

Keeping your 89600B VSA up-to-date

Each Option 200 order includes 12 months of update and subscription service, at no additional charge. The software update and subscription service offers the advantage of immediate notification and access to the latest enhancements available for the 89600B VSA software.

License type and option selection

The license type determines the allowable option configurations.

- For both types, all 89600B VSA options are optional, with the exception of Options 200 and 300
- For 89601B, PC/instrument-license, the maximum quantity for each option is one
- For 89601BN, floating-license, the maximum quantity for each option is equal to the Option 200 Basic VSA quantity ordered. It is not required that all options have the same quantity

In this example, a maximum of five users can use the 89601BN license at the same time; however only two can make TD-SCDMA measurements and only one can make LTE measurements.

Description	Model-option	Quantity
Basic VSA	89601BN-200	5
Hardware connectivity	89601BN-300	5
TD-SCDMA modulation analysis	89601BN-B7X	2
LTE FDD modulation analysis	89601BN-BHD	1

Step 3: Select measurement options

Description	Model-option		Notes
	PC/instrument license	**Floating license**	
General purpose			
Vector modulation analysis	89601B-AYA	89601BN-AYA	Analysis of >30 modulation types and presets. Speeds the setup and analysis of over 15 communications formats such as ZigBee, Bluetooth®, APCO.
Custom OFDM modulation analysis	89601B-BHF	89601BN-BHF	Provides modulation analysis of proprietary and pre-standard OFDM formats
Cellular communications			
LTE FDD modulation analysis	89601B-BHD	89601BN-BHD	4G analysis for FDD-formatted LTE signals
LTE TDD modulation analysis	89601B-BHE	89601BN-BHE	4G analysis for TDD-formatted LTE signals
cdma2000® and 1xEV-DV modulation analysis	89601B-B7T	89601BN-B7T	cdma2000 and 1xEV-DV modulation analysis
W-CDMA and HSPA+ modulation analysis	89601B-B7U	89601BN-B7U	W-CDMA and HSPA+ modulation analysis
1xEV-DO modulation analysis	89601B-B7W	89601BN-B7W	1xEV-DO modulation analysis
TD-SCDMA modulation analysis	89601B-B7X	89601BN-B7X	TD-SCDMA modulation analysis
3G modulation analysis bundle	89601B-B7N	89601BN-B7N	Discounted option bundle includes -B7T, -B7U, -B7W, and -B7X
Wireless connectivity			
802.11a/b/g modulation analysis	89601B-B7R	89601BN-B7R	WLAN analysis including IEEE 802.11a/b/g/j/p formats
802.11n modulation analysis	89601B-B7Z	89601BN-B7Z	2x2 and 4x4 WLAN MIMO using supported Agilent platforms
802.16e modulation analysis	89601B-B7Y	89601BN-B7Y	Mobile WiMAX™ IEEE-802.16e OFDMA analysis
802.16 OFDM modulation analysis	89601B-B7S	89601BN-B7S	IEEE-802.16d OFDM analysis for Fixed WiMAX signals
RFID modulation analysis	89601B-BHC	89601BN-BHC	RFID analysis including EPCGen2; and many NFC formats
MB-OFDM Ultrawideband modulation analysis	89601B-BHB	89601BN-BHB	WiMedia UWB analysis
Connectivity to simulation software			
Link to EEsof ADS[1]/SystemVue	89601B-105	89601BN-105	Dynamic link for ADS[1] or SystemVue simulations

1. Functionality available July 2011.

Upgrade your Existing 89600B VSA Software

www.agilent.com/find/89600B_upgrades

This section explains how to configure your 89600B VSA software order when you are upgrading your existing 89600B VSA software.

You may need to update your software to the current version. To check, follow these 2 steps:

1. Check the version number of your software by selecting **Help > About** in the 89600B VSA software toolbar and comparing that to the current version number found at **www.agilent.com/find/89600B_upgrades**.
2. If you do not have the current version of the 89600B software, order the 89601BU/BNU software update and subscription service to update your software to the latest version.

Upgrading 89601B, PC/instrument-license

Choose the option(s) you want, remembering that the maximum number of any option for instrument/PC licenses is 1. To determine if you already have an option, go to the 89600B VSA toolbar and select **Utilities >Licenses...** The options you have installed are indicated with a **Yes**.

Upgrading 89601BN, floating license

For a floating-licensed system, the number of users who can use a newly added license is determined by the Option 200 quantity. Therefore, the quantity of any one option cannot exceed the Option 200 quantity. Check with your network manager to determine the Option 200 quantity in your system.

Description	Model-Option		Notes
	PC/Instrument license	**Floating license**	
	89601B	89601BN	Select license type. One of these items needs to be on every order. They are no-cost items.
Basic VSA	------ [1]	89601BN-200[2]	
Hardware connectivity	------ [1, 3]	89601BN-300	
General purpose			
Vector modulation analysis	89601B-AYA	89601BN-AYA	Analysis of >30 modulation types and presets to speed the setup and analysis of over 15 communications formats such as ZigBee, Bluetooth, APCO
Custom OFDM	89601B-BHF	89601BN-BHF	Provides modulation analysis of proprietary and pre-standard OFDM formats

1. Not allowed, as this option is already available in existing software.
2. Ordering this option adds another 89600B VSA seat to the floating license network.
3. Option 300 is not required if you are using Option 105 Link to ADS/SystemVue (ADS functionality available July 2011) and are not planning on connecting to hardware.

Cellular communications			
LTE FDD modulation analysis	89601B-BHD	89601BN-BHD	4G analysis for FDD-formatted LTE signals
LTE TDD modulation analysis	89601B-BHE	89601BN-BHE	4G analysis for TDD-formatted LTE signals
cdma2000 and 1xEV-DV modulation analysis	89601B-B7T	89601BN-B7T	cdma2000 and 1xEV-DV modulation analysis
W-CDMA and HSPA+ modulation analysis	89601B-B7U	89601BN-B7U	W-CDMA and HSPA+ modulation analysis
1xEV-DO modulation analysis	89601B-B7W	89601BN-B7W	1xEV-DO modulation analysis
TD-SCDMA modulation analysis	89601B-B7X	89601BN-B7X	TD-SCDMA modulation analysis
3G modulation analysis bundle	89601B-B7N	89601BN-B7N	Discounted option bundle includes -B7T, -B7U, -B7W, and -B7X
Wireless connectivity			
802.11a/b/g modulation analysis	89601B-B7R	89601BN-B7R	WLAN analysis including IEEE 802.11a/b/g/j/p formats
802.11n modulation analysis	89601B-B7Z	89601BN-B7Z	2x2 and 4x4 WLAN MIMO using supported Agilent platforms
802.16e modulation analysis	89601B-B7Y	89601BN-B7Y	Mobile WiMAX IEEE-802.16e OFDMA analysis
802.16 OFDM modulation analysis	89601B-B7S	89601BN-B7S	IEEE-802.16d OFDM analysis for Fixed WiMAX signals
RFID modulation analysis	89601B-BHC	89601BN-BHC	RFID analysis including EPCGen2; and many NFC formats
MB-OFDM Ultrawide-band modulation analysis	89601B-BHB	89601BN-BHB	WiMedia UWB analysis
Connectivity to simulation software			
Link to EEsof ADS[1]/SystemVue	89601B-105	89601BN-105	Dynamic link for ADS[1] or SystemVue simulations

1. Functionality available July 2011.

Update and Subscription Service

The 89601BU/BNU software update and subscription service offers you the advantage of immediate access to the latest features and enhancements available for the 89600B VSA software and is the best way to protect your software investment. New 89600B VSA orders include 12 months of the service at no additional charge.

The update and subscription service gives you the following benefits:

- Immediately updates your 89600B software (v13.0 or higher) and all licensed options to the most current version
- Provides updates for the period of the subscription, either 12 or 24 months

To renew your 89600B update and subscription service, select the appropriate license type and term.

Description	Model-Option		Notes
	PC/Instrument license	**Floating license**	
12 month standalone software update and subscription service	89601BU-012	89601BNU-012	Immediately updates software to current version and provides 1 year of updates
24 month standalone software update and subscription service	89601BU-024	89601BNU-024	Immediately updates software to current version and provides 2 years of updates

PC Requirements

Any laptop or desktop PC may be used to run the 89601B/89601BN VSA software, as long as it meets or exceeds the following minimum requirements. For a list of the most current requirements, see

www.agilent.com/find/89600B-pc.

Operating system	Microsoft® Windows® XP Professional SP3 (32 bit), or Ultimate; Microsoft Windows 7 Professional, Enterprise, or Ultimate (32 bit or 64 bit)
CPU	1 GHz (> 2 GHz recommended)
RAM	2 GB (4 GB recommended)
Video RAM	128 MB (512 MB recommended)
Hard disk	1 GB available
Additional drives	DVD to load the software; license transfer requires network access or a USB memory stick
Interface support	LAN, GPIB, USB, or FireWire®[1] interface (VXI HW only)[2]

1. For a list of supported IEEE-1394 (FireWire) interfaces, visit www.agilent.com and search the FAQ's for information on "What type of IEEE-1394 interface can I use in my computer to connect to the 89600S VXI hardware?"
2. If using VXI and Windows 7, only 32-bit operation supported

Floating License Server Requirements

The 89601BN requires loading a vendor daemon on a license server. This server may be the same PC running the 89600B software. Full installation instructions and support are provided for compatible server operating systems: Windows 7 Professional, Enterprise, Ultimate (32 or 64 bit); Windows XP Pro SP3 (32 bit); Windows Server 2008 and Windows Server 2003.

Additional Resources

Literature

89600B Vector Signal Analysis Software, Brochure, p/n 5990-6553EN

89601B/BN-200 Basic VSA and -300 Hardware Connectivity, Technical Overview, p/n 5990-6405EN

Web

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