Agilent E6601A Wireless Communications Test Set

Configuration Guide

This configuration guide describes how to configure a new Agilent E6601A Wireless Communications Test Set for single or multiple wireless formats. This guide also explains how to add formats, features, or upgrades to an existing E6601A test set.

Notice

For the latest E6601A configuration information, select the E6601A Configuration Guide from the Library at **www.agilent.com/find/e6601a**

Agilent Technologies

Agilent E6601A Wireless Communications Test Set

The new E6601A one-box test set expedites mobile phone calibration. Combining industry-leading measurement speed, selectable formats, flexible licensing, and an integrated open Windows® PC, the E6601A helps you achieve the lowest cost of test in mobile phone manufacturing. Use this guide to configure or upgrade an E6601A to meet your needs.

Configuring the E6601A

The E6601A consists of a hardware platform and licensed application software. When purchasing the E6601A, you first select the hardware platform and options. Then, select application software product licenses that extend the capability of the wireless communications test set for specific wireless technologies. All applications require a license to run. There are three types of licenses available: fixed, transportable, and term.

Fixed perpetual license

This is the type of license recommended if you have a long-time need for the application on a specific test set. This license allows you the right to use the application without a time limit. The license allows the application to run on a single test set and cannot be transferred to another test set.

Transportable perpetual license

This is the type of license recommended if you have a long-term need for the application but you require it to run intermittently on multiple test sets. This license allows you the right to use the application without a time limit. The license allows you to move it from one test set to another. You can move the license up to 10 times during a 28 day period. When moving the license from one test set to another, you are required to check the license in and out of the Agilent license server.

1-, 3-, 6-, and 12-month term fixed licenses

A term license is recommended if you have a specified time need for the application on a specific test set. This license allows you the right to use the application with a time limit. The license term starts when the license is redeemed. Do not redeem a term license until you need to use it.

Term licensed applications are purchased standalone. Term licenses and applications will not be pre-installed if ordered with your new test set. A term license enables an application to run on a single test set. Term licenses cannot be transferred to another test set.

Note: Some applications or features require another license be present in order to operate. For example, the PAvT feature requires a GSM/GPRS license to operate. Dependencies are noted in the configuration guide and quick configuration table.

Upgrading the E6601A

To add a new format or feature option to your E6601A, order a format or feature license. Agilent will send you a license entitlement. Redeem and install the license and download the application from **www.agilent.com/find/e6601sw**.

To upgrade an application to the current revision, order the upgrade license. Agilent will send you an upgrade license entitlement. Redeem and install the license then download and install the new application revision from **www.agilent.com/find/e6601sw**. The "upgrade to current revision" license enables the newest application features, enhancements, and application feature option enhancements. An application upgrade license requires valid, installed licenses for that application model and applicable feature option(s). The upgrade license works with fixed, transportable, or term licenses.

E6601A Configuration Guide

If you are **ordering a new E6601A** Wireless Communications Test Set **start at Step 1** of this configuration guide. If you are **adding an application or application feature** or **upgrading** an application to the newest revision on an existing E6601A, **start with Step 5**.

Step 1: Required — For test set order

- E6601A Wireless Communications Test Set

Step 2: Required — For General Purpose Application and license order

- E6890A General Purpose Application
- E6890A-1FP General Purpose Application - fixed, perpetual license [1]

Start here if you are adding a new application or feature, or upgrading an application on an existing E6601A.

Step 3: Required — Warranty selection

Choose one of the following E6601A options:

- R-51B-001-C 1-year return-to-Agilent
- R-51B-003-C 1-year return-to-Agilent warranty, extended to 3 years

Step 4: Required — Hardware support software license

Order Agilent N5891A plus:

- N5891A-1FP Test set repair tools - fixed, perpetual license

Step 5: Optional — Choose or add a technology or feature

A. E6831A GSM/GPRS/EGPRS Calibration Application

For GSM/GPRS, order E6831A plus one of the following options:

- E6831A-1FP GSM/GPRS measurements - fixed, perpetual license [1, 2]
- E6831A-1F1 GSM/GPRS measurements - 1 mo, fixed license [3]
- E6831A-1F3 GSM/GPRS measurements - 3 mo, fixed license [3]
- E6831A-1F6 GSM/GPRS measurements - 6 mo, fixed license [3]
- E6831A-1FY GSM/GPRS measurements - 12 mo, fixed license [3]
- E6831A-1TP GSM/GPRS measurements - transportable, perpetual license [1, 2]

For EGPRS, order E6831A plus one of the following options:

- E6831A-2FP EGPRS measurements - fixed, perpetual license [1, 2, 4]
- E6831A-2F1 EGPRS measurements - 1 mo, fixed license [3, 4]
- E6831A-2F3 EGPRS measurements - 3 mo, fixed license [3, 4]
- E6831A-2F6 EGPRS measurements - 6 mo, fixed license [3, 4]
- E6831A-2FY EGPRS measurements - 12 mo, fixed license [3, 4]
- E6831A-2TP EGPRS measurements - transportable, perpetual license [1, 2, 4]

For PAvT, order E6831A plus one of the following options:

- E6831A-3FP PAvT measurements - fixed, perpetual license [1, 2, 4]
- E6831A-3F1 PAvT measurements - 1 mo, fixed license [3, 4]
- E6831A-3F3 PAvT measurements - 3 mo, fixed license [3, 4]
- E6831A-3F6 PAvT measurements - 6 mo, fixed license [3, 4]
- E6831A-3FY PAvT measurements - 12 mo, fixed license [3, 4]
- E6831A-3TP PAvT measurements - transportable, perpetual license [1, 2, 4]

To upgrade E6831A order:

- E6831A-R2C Upgrade to current version. This upgrade adds EVM graphics.

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1. When ordered on the same order with a new E6601A, a license will be installed in the E6601A.
2. When purchased standalone, an entitlement certificate for a license will be supplied for customer license redemption and installation.
3. Not factory installable. Entitlement certificate for a license will be supplied for customer license redemption and installation.
4. EGPRS Calibration Application, PAvT measurement enhancement, and upgrade to current revision require a valid GSM/GPRS license.

B. W-CDMA Calibration Application

For W-CDMA, order E6832A plus one of the following options:

- E6832A-1FP W-CDMA measurements - fixed, perpetual license [1, 2]
- E6832A-1F1 W-CDMA measurements - 1 mo, fixed license [3]
- E6832A-1F3 W-CDMA measurements - 3 mo, fixed license [3]
- E6832A-1F6 W-CDMA measurements - 6 mo, fixed license [3]
- E6832A-1FY W-CDMA measurements - 12 mo, fixed license [3]
- E6832A-1TP W-CDMA measurements - transportable, perpetual license [1, 2]

To upgrade E6832A order:

- E6832A-R2C Upgrade to current version. Upgrade add[6]

C. cdma2000®/1xEV-DO Calibration Application[5]

For cdma2000/1xEV-DO, order E6833A plus one of the following options:

- E6833A-1FP cdma2000/1xEV-DO measurements - fixed, perpetual license [1, 2]
- E6833A-1F1 cdma2000/1xEV-DO measurements - 1 mo, fixed license [3]
- E6833A-1F3 cdma2000/1xEV-DO measurements - 3 mo, fixed license [3]
- E6833A-1F6 cdma2000/1xEV-DO measurements - 6 mo, fixed license [3]
- E6833A-1FY cdma2000/1xEV-DO measurements - 12 mo, fixed license [3]
- E6833A-1TP cdma2000/1xEV-DO measurements - transportable, perpetual license [1, 2]

To upgrade E6833A order:

- E6833A-R2C Upgrade to current revision. Upgrade adds IS-95 waveform quality

D. TD-SCDMA Calibration Application

For TD-SCDMA, order E6835A plus one of the following options:

- E6835A-1FP TD-SCDMA measurements - fixed, perpetual license[1, 2]
- E6835A-1F1 TD-SCDMA measurements - 1 mo, fixed license[3]
- E6835A-1F3 TD-SCDMA measurements - 3 mo, fixed license[3]
- E6835A-1F6 TD-SCDMA measurements - 6 mo, fixed license[3]
- E6835A-1FY TD-SCDMA measurements - 12 mo, fixed license[3]
- E6835A-1TP TD-SCDMA measurements - transportable, perpetual license[1, 2]

E. E6890A General Purpose Application

To choose a general purpose option order:

- E6890A-2FP IQ capture- fixed, perpetual license

To upgrade order:

- E6890A-R2C Upgrade to current revision. Upgrade adds QPSK waveform quality

F. E6601 Application Features[5]

Fast Device Tune Measurements, order E6889A plus one of the following options:

- E6889A E6601A Application Features
- E6889A-1FP Fast Device Tune measurement - fixed, perpetual license [1, 2, 4]
- E6889A-1F1 Fast Device Tune measurement - 1 mo, fixed license [3, 4]
- E6889A-1F3 Fast Device Tune measurement - 3 mo, fixed license [3, 4]
- E6889A-1F6 Fast Device Tune measurement - 6 mo, fixed license [3, 4]
- E6889A-1FY Fast Device Tune measurement - 12 mo, fixed license [3, 4]
- E6889A-1TP Fast Device Tune measurement - transportable, perpetual license [1, 2, 4]

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1. When ordered on the same order with a new E6601A, a license will be installed in the E6601A.
2. When purchased standalone, an entitlement certificate for a license will be supplied for customer license redemption and installation.
3. Not factory installable. Entitlement certificate for a license will be supplied for customer license redemption and installation.
4. Fast Device Tune measurements work with the E6832A W-CDMA and E6833A cdma2000/1xEV-DO Calibration Applications.
5. If multiple applications or feature options are ordered together, only one media option is required since the media option covers the E6601A and all the calibration and feature applications.
6. Upgrade to current revision requires a valid W-CDMA license.

Step 6: Optional — Application Software Media

Order this if you want a backup of the applications software on a CD ROM.
A backup can also be downloaded from the Agilent E6601A Web site.

- E6601A-MED Software media

Step 7: Optional — Manuals

- E6601A-OBD General usage manuals

If you are **ordering an E6601A** on this order **continue with Step 6**.
If you are **adding an application or application feature** to an existing E6601A **stop here**.

Step 8: Optional — Calibration data

- E6601A-1A7 ISO 17025-compliant calibration data at time of shipment. Calibration data covers frequency range of 400 to 2200 MHz and includes all calibration applications except TD-SCDMA

Step 9: Optional — Optional calibration contract

- R-50C-011-3 Agilent calibration, up-front support plan, 3 year coverage
- R-50C-016-3 ISO 17025 calibration, up-front support plan, 3 year coverage

Step 10: Optional — Rack-mount options

- E6601A-AX3 Front handle kit (standalone orders [1])
- E6601A-AX4 Rack flange kit (standalone orders [2])
- E6601A-AX5 Flange and handle kit (standalone orders [3])

Step 11: Optional — Automated calibration software license

(Additional equipment required.) For more information on this and other calibration software products visit **www.agilent.com/find/calibrationsoftware**.

Choose one of the following E6601A options for Agilent calibration software:

- R-52A-001-3 3 year license - Agilent commercial calibration [5, 6]
- R-52A-001-L Perpetual license - Agilent commercial calibration [4, 5]
- R-52A-002-3 3 year license - Agilent ISO 17025 and Z540 calibration [5, 6]
- R-52A-002-L Perpetual license - Agilent ISO 17025 and Z540 calibration [4, 5]

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1. If ordered without an E6601A order as 5063-9229.
2. If ordered without an E6601A order as 5063-9216.
3. If ordered without an E6601A order as 5063-9223.
4. When ordered on the same order with a new E6601A, a license will be installed in the E6601A.
5. When purchased standalone, an entitlement certificate for a license will be supplied for customer license redemption and installation.
6. Not factory installable. Entitlement certificate for a license will be supplied for customer license redemption and installation.

Ordering Example

This example is for a new order with GSM/GPRS/EGPRS measurements with fixed perpetual license, 3 year return-to-Agilent warranty, ISO 17025 calibration, and back up software media and manuals on CD ROM.

Qty	Item	Description
1	E6601A	Wireless communications test set
1	E6890A	General purpose application
1	E6890A-1FP	General purpose application - fixed perpetual license
1	E6831A	GSM/GPRS/EGPRS - calibration application
1	E6831A-1FP	GSM/GPRS measurements - fixed perpetual license
1	E6831A-2FP	EGPRS measurements - fixed, perpetual license
1	E6601A-MED	Software media (backup on CD ROM)
1	E6601A-OBD	General usage manuals
1	N5891A	Test set repair tools
1	N5891A-1FP	Test set repair tools - fixed perpetual license
1	R51B-011-3	Three year return-to-Agilent warranty extension
1	E6601A-1A7	ISO 17205-compliant calibration

If multiple applications or feature options are ordered together, only one media option is required since the media option covers the E6601A and all the calibration and feature applications.

E6601A Quick Reference Configuration Table

Order	E6601A	E6890A Opt 1xx	E6890A Opt 2xx	E6831A Opt 1xx	E6831A Opt 2xx	E6831A Opt 3xx	E6832A Opt 1xx	E6833A Opt 1xx	E6835A Opt 1xx	E6889A Opt 1xx
Application										
General purpose	▼	▼								
IQ capture option	▼	▼	▼							
GSM/GPRS	▼	▼		▼						
EGPRS	▼	▼		▼	▼					
PAvT	▼	▼		▼		▼				
W-CDMA (includes HSDPA)	▼	▼					▼			
cdma2000/1xEV-DO	▼	▼						▼		
TD-SCDMA	▼	▼							▼	
Fast Device Tune measurements	▼	▼								▼ see note

For a new order, locate the application(s) you need and order the products marked with a ▼. If you are adding an application or measurement enhancement to an already-owned E6601A, determine which products are required (▼) for your new measurement or technology needs and order what is not already installed. The ▼ indicates a product installed with a valid license.

Note: The E6889A adds Fast Device Tune measurement capabilities to calibration applications. See specific product data sheets for more information on which products currently support the E6889A. The E6832A (W-CDMA) and E6833A (cdma2000/1xEV-DO) Calibration Applications support Fast Device Tune measurements.

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Agilent Open simplifies the process of connecting and programming test systems to help engineers design, validate and manufacture electronic products. Agilent offers open connectivity for a broad range of system-ready instruments, open industry software, PC-standard I/O and global support, which are combined to more easily integrate test system development.

Remove all doubt

Our repair and calibration services will get your equipment back to you, performing like new, when promised. You will get full value out of your Agilent equipment throughout its lifetime. Your equipment will be serviced by Agilent-trained technicians using the latest factory calibration procedures, automated repair diagnostics and genuine parts. You will always have the utmost confidence in your measurements.

Agilent offers a wide range of additional expert test and measurement services for your equipment, including initial start-up assistance onsite education and training, as well as design, system integration, and project management.

For more information on repair and calibration services, go to:

www.agilent.com/find/removealldoubt

www.agilent.com

For more information on Agilent Technologies' products, applications or services, please contact your local Agilent office. The complete list is available at:

www.agilent.com/find/contactus

North America

Canada	(877) 894-4414
Latin America	305 269 7500
United States	(800) 829-4444

Asia Pacific

Australia	1 800 629 485
China	800 810 0189
Hong Kong	800 938 693
India	1 800 112 929
Japan	81 426 56 7832
Korea	080 769 0800
Malaysia	1 800 888 848
Singapore	1 800 375 8100
Taiwan	0800 047 866
Thailand	1 800 226 008

Europe

Austria	0820 87 44 11
Belgium	32 (0) 2 404 93 40
Denmark	45 70 13 15 15
Finland	358 (0) 10 855 2100
France	0825 010 700
Germany	01805 24 6333*
	*0.14 /minute
Ireland	1890 924 204
Italy	39 02 92 60 8484
Netherlands	31 (0) 20 547 2111
Spain	34 (91) 631 3300
Sweden	0200-88 22 55
Switzerland (French)	41 (21) 8113811(Opt 2)
Switzerland (German)	0800 80 53 53 (Opt 1)
United Kingdom	44 (0) 118 9276201

Other European Countries:
www.agilent.com/find/contactus

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