



10 Easy Steps To Configure Your New Agilent N1960A GS-8800 Design Verification and Conformance Test System

Selection Guide



This quick step-by-step process will help you determine which option numbers to specify when ordering the N1960A GS-8800 design verification and conformance test system. For N1960A GS-8800 specifications, please refer to the datasheet ([literature number 5990-5805EN](#)).

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Step 1. Select one system application

Description	Option number	Additional information
Design verification and RF conformance system	N1960A-DNR ¹	Select software option from Step 3a and Step 3b
Design verification system	N1960A-DVT	Select software option from Step 3b
RF conformance system	N1960A-RCT ¹	Select software option from Step 3a

Step 2. Select one technology format

Description	Option number	Additional information
All technologies	N1960A-ALL	
cdma2000® to 1xEV-DO Rev. B	N1960A-C2K	cdma2000/1xEV-DO Rev. 0/1xEV-DO Rev. A/1xEV-DO Rev. B
UMTS to TD-SCDMA	N1960A-UMT ²	GSM/GPRS/EGPRS/W-CDMA/HSDPA/HSUPA/HSPA+/TD-SCDMA

Step 3. Select test software

(Multiple options can be selected. Fixed and perpetual software licenses are available)

Step 3a. Select conformance test software

Description	Option number	Additional information
TS 51.010-1 RCT core sections	N1960A-C01	<ul style="list-style-type: none"> 2G core test cases Option C01 requires an E6705A³, GSM/(E)GPRS encryption license
TS 51.010-1 RCT extension DARP Phase 1	N1960A-C20	<ul style="list-style-type: none"> DARP Phase 1 test cases only Option C20 requires an E6705A³, GSM/(E)GPRS encryption license
TS 51.010-1 RCT extension Secs 21/22	N1960A-C21	<ul style="list-style-type: none"> Sections 21/22 test cases Option C21 requires an E6705A³, GSM/(E)GPRS encryption license
TS51.010-1 RCT extention WB AMR software	N1960A-CWA	<ul style="list-style-type: none"> Wideband adaptive multi-rate test cases Requires an E6705A³, GSM/(E)GPRS encryption license
TS 34.121-1 RCT core Rel. 99/4/5	N1960A-C41	3G Release 99/4/5 Core test cases
TS 34.121-1 RCT PLUS Rel. 99/4/5, FDD I/II/V	N1960A-C42	Release 99/4/5 plus Band I/II/V test cases
TS 34.121-1 RCT extension Rel. 6	N1960A-C71	<ul style="list-style-type: none"> Also includes Release 6 RxD test cases Automatically adds necessary RF interface box (N1960A-R14) to order
TS 34.121-1 RCT PLUS Rel. 6 FDDI/II/V	N1960A-C72	Release 6 plus test cases
TS 34.121-1 RCT extension Rel. 7	N1960A-C76	<ul style="list-style-type: none"> Also includes Release 7 RxD test cases Automatically adds necessary RF interface box (N1960A-R14) to order
TS 34.122 RCT core sections	N1960A-CT1	TD-SCDMA/TD-HSDPA/TD-HSUPA test cases
TS 34.121-1 RCT extension Rel. 8	N1960A-C78	Dual carrier test cases

1. The instrument is equipped with ISO17025 calibration.

2. GSM/GPRS/EGPRS/W-CDMA/HSDPA/HSUPA/HSPA+ require the GSM filter module, N1960A-G01. The GSM module will be automatically loaded once the relevant software option is chosen.

3. The license must be purchased under a separate order. This is a US government regulatory requirement. Only one license is required regardless of the number of Option Cxx licenses purchased.

Step 3. Select test software

(Multiple options can be selected. Fixed and perpetual software licenses are available)

Step 3b. Select design verification software

Description	Option number	Additional information
TS 51.010-1 DVT core sections	N1960A-W01	<ul style="list-style-type: none"> • 2G core test cases • Prerequisite for N1960A-WF1
TS 51.010-1 DVT extension DARP Phase 1	N1960A-W20	DARP Phase 1 test cases only
TS 51.010-1 DVT extension sections 21/22	N1960A-W21	Section 21 and 22 test cases
TS 51.010-1 DVT extension EGPRS2	N1960A-W23	EGPRS2 test case
TS51.010-1 DVT extension WB AMR software	N1960A-WWA	Wideband adaptive multi-rate test cases
TS 34.121-1 DVT core Rel. 99/4/5	N1960A-W41	3G Release 99/4/5 core test cases
TS 34.121-1 DVT PLUS Rel. 99/4/5	N1960A-W42	Release 99/4/5 PLUS test cases
TS 34.121-1 DVT extension Rel. 6	N1960A-W71	<ul style="list-style-type: none"> • Also includes Release 6 RxD test cases • Automatically adds necessary RF interface box (N1960A-R14) to order
TS 34.121-1 DVT PLUS Rel. 6	N1960A-W72	Release 6 PLUS test cases
TS 34.121-1 DVT extension Rel. 7	N1960A-W76	<ul style="list-style-type: none"> • Also includes Release 7 RxD test cases • Automatically adds necessary RF interface box (N1960A-R14) to order
TS 34.121-1 DVT extension Rel. 8	N1960A-W78	Dual carriers test cases
C.S0033 DVT extension 1xEV-DO Rev. B	N1960A-W8B	<ul style="list-style-type: none"> • EVDO Revision B test cases • Automatically adds the required RF interface box (N1960A-R14) to order
TS 34.122 DVT core sections	N1960A-WT1	TD-SCDMA/TD-HSDPA/TD-HSUPA test cases
C.S0011 and C.S0033 DVT core sections	N1960A-W08	<ul style="list-style-type: none"> • cdma2000/EVDO-Rev. 0/EVDO-Rev. A test cases • Prerequisite for N1960A-WB1
C.S0011 DVT extension Revision D update software	N1960A-WD8	The prerequisite license is N1960A-W08
C.S0011 DVT extension Revision E update software	N1960A-WE8	<ul style="list-style-type: none"> • The prerequisite license is N1960A-W08 • Limited release. Available under exclusive agreement • Contact your Agilent Sales Representative for details
C.S0033 DVT extension 1xEV-DO Rev. C software	N1960A-W8C	The prerequisite is N1960A-W8B
C.S0033 DVT extension 1xEV-DO Rev. D software	N1960A-W8D	<ul style="list-style-type: none"> • The prerequisite license is N1960A-W8B • Limited release. Available under exclusive agreement • Contact your Agilent Sales Representative for details

Step 4. Select one fading option

Description	Option number	Additional information
Agilent N5115B Baseband Studio for fading	N1960A-F60	<ul style="list-style-type: none"> • Only applicable to DVT software N1960A-W01, -W21, -W41, -W42, -W71, -W72, -W76, and -W08 • The baseband fader card is connected to the 8960
Additional Agilent N5115B Baseband Studio for E4438C fading	N1960A-F61	<ul style="list-style-type: none"> • Only applicable to DVT GGE formats -W01 and -W21 • N1960A-F60 is prerequisite and is automatically added to order • The second baseband fader card is connected to an ESG
Customer-installed fading simulator	N1960A-F80	Customer-furnished equipment
Additional filler panel for Agilent Baseband Studio for fading	N1960A-F96	<ul style="list-style-type: none"> • Dummy option • Automatically added to order if Option F60 is selected
SR5500M with AWGN, MIMO, 3-years ASA support without GUI	U9590A-001	<ul style="list-style-type: none"> • Configured from U9590A-AT0 • Release 7 HSPA+ test cases 10.2.2.1.1A, 10.2.2.2.1A, 10.3.2A, 10.2.2.1.2A, and 10.2.2.2.2A, require fader with MIMO functionality
SR5500M with AWGN, 3-years ASA support without GUI	U9590A-002	Configured from U9590A-AT0

Step 5. Select additional hardware (Optional. Leave it blank if not required)

Step 5a. To add into existing based racks. Select one only or leave it blank

Description	Option number	Additional information
GS-8800 with partial 21.1 and 21.2 configuration	N1960A-Q02	<ul style="list-style-type: none"> • Runs partial Section 21 multicells • Requires two ESGs • No customer furnished support for ESG • Automatically adds the necessary RF interface box (N1960A-R14) to order
GS-8800 with Rel. 6 Section 10 configuration	N1960A-Q03	<ul style="list-style-type: none"> • Runs Release 6 Section 10 handover (dual cells) and/or EVDO Rev. B 2 multi-carriers test cases with an additional 8960 • No customer furnished support for the 8960 • Automatically adds the necessary RF interface box (N1960A-R14) to order
GS-8800 with TD-SCDMA configuration	N1960A-Q04	
GS-8800 with Rel. 6 Section 10 and TD-SCDMA configuration	N1960A-Q05	<ul style="list-style-type: none"> • Runs Release 6 Section 10 handover (dual cells; additional 8960) and TD-SCDMA • No customer furnished support for 8960 • Automatically adds the required RF interface box (N1960A-R14) and the TD-SCDMA RF interface box (U9572A)
Add two 8960s to support Rev. B and Rel. 6 Sec. 10	N1960A-Q06	<ul style="list-style-type: none"> • Runs Release 6 Section 10 handover (dual cells) and EVDO Rev. B (3 multi-carrier test cases; 2 additional 8960 test sets) • No customer furnished support of 8960 • Automatically adds required RF interface box (N1960A-R14) into order

Step 5b. To add an extra rack (Select only one or leave blank)

Description	Option number	Additional information
Additional 2 m rack to cover Sections 21.1 and 21.2 multicell and Rel. 6 Section 10 configuration	N1960A-Q01	<ul style="list-style-type: none"> • Runs full Section 21 multicells (5 additional ESG instruments) and Release 6 Section 10 handover (dual cells, one additional 8960) • No customer furnished support for 8960 and ESGs • Automatically adds required RF interface box (N1960A-R14)
Additional 2 m rack to cover GSM Sections 21 and 22, Rel. 6 Section 10, Rev. B three multi-carrier and TD-SCDMA	N1960A-Q07	<ul style="list-style-type: none"> • Runs full Section 21 multicells (5 additional ESG instruments), Release 6 Section 10 handover (dual-cells), EVDO Rev. B three multi-carriers (2 additional 8960 instruments), and TD-SCDMA • No customer furnished support for 8960s and/or ESGs • Automatically adds the RF interface box (N1960A-R14)
Additional 1.6 m rack to cover GSM Sections 21.1/21.2 multicell and 3G two-cell configuration	N1960A-Q08	To run full Section 21 multicells with Agilent-supplied five additional ESGs and an extra 8960 in a 1.6 m extension rack

Step 5c. To add an extra band-specific filter module (Optional. Leave it blank if not required)

Description	Option number	Additional information
W-CDMA Band 11 filter	U9580A-FG	
TD-SCDMA Band filter	U9572A-FG	Inside U9572A-FG are two options to choose: U9572A-TD1 = Band 33/34 (A), Band 39 (F); U9572A-040 = Band 40 (E)

Step 6. Select customer-furnished equipment

(Optional. Leave it blank if not required)

Description	Option number	Additional information
8960 wireless communications test set	N1960A-CF8	Not applicable if N1960A-Q01, -Q03, -Q05, -Q06, or -Q07 is ordered
Spectrum analyzer	N1960A-CFA	
Signal generator	N1960A-CFE	Not applicable if N1960A-Q01, -Q02, or -Q07 is ordered
Anite Plus package	N1960A-CFI	
Performance signal generator	N1960A-CFP	

Step 7. Select E5515C test application (TA) or lab application (LA)

(Skip this step if N1960A-CF8 was selected in Step 6)

Description	Option number	Additional information
Lab application suite	N1960A-L00	
GSM/GPRS/EGPRS LA	N1960A-L01	
W-CDMA/HSPA LA	N1960A-L02	
cdma2000/EVDO LA	N1960A-L03	
UMTS lab application suite	N1960A-L12	
E1962B cdmaOne/cdma2000 TA	N1960A-T03	
E1966A 1xEV-DO TA	N1960A-T04	
TD-SCDMA TA	N1960A-T07	
TD-SCDMA HSDPA TA	N1960A-T08	These three are required when N1960A-WT1 or/and N1960A-CT1 is/are selected
TD-SCDMA HSUPA TA	N1960A-T09	
E6590A-101 GSM/GPRS Anite application	N1960A-AN1	
E6590A-102 EGPRS Anite application	N1960A-AN2	These three are required if N1960A-W42, -W72, -C42, or -C72 is ordered
E6590A-103 RF modem Anite application	N1960A-AN3	

Step 8. Select test system software and technical support

(Choose 1 from each Step)

Step 8a. Select conformance test software and technical support²

Description	Option number ¹	Additional information
TS 51.010-1 DVT core sections	U1950AS-xSY	Only the relevant STSC group will be shown based upon the selection from Step 3a or/and Step 3b
C.S0011 and C.S0033 DVT	U1951AS-xSY	
TS 34.121-1 DVT core Rel. 99/4/5	U1956AS-xSY	
TS 34.121-1 DVT extensions	U1957AS-xSY	
TS 51.010-1 DVT extensions	U1958AS-xSY	
TS 34.121-1 DVT plus	U1959AS-xSY	
TS 34.122 DVT	U1970AS-xSY	

Step 8b. Select design verification software and technical support¹

Description	Option number ³	Additional information
TS 51.010-1 RCT core sections	U1960AS-xSY	Only the relevant STSC group will be shown based upon the selection from Step 3a or/and Step 3b
TS 34.121-1 RCT core Rel. 99/4/5	U1966AS-xSY	
TS 34.121-1 RCT extensions	U1967AS-xSY	
TS 51.010-1 RCT extensions	U1968AS-xSY	
TS 34.121-1 RCT plus	U1969AS-xSY	
TS 34.122 RCT	U1970AS-xSY	

Step 8c. Select LA annual upgrade contract (Optional. Leave it blank if not required)

Description	Option number	Additional information
Lab application annual upgrade contract	E6720A	Not compulsory, but strongly encouraged. The future GS-8800 software may require newer versions of LA

Step 8d. Select installation, ATP support, and training (Optional. Leave it blank if not required)

Description	Option number	Additional information
On-site installation, system integration and testing by factory support team	H9338A	

1. $x = 1, 2, 3$. for STSC contract extension, options of 1, 3, 6, 9, 12, 24, or 36 months are available.

2. GSM/GPRS/EGPRS/W-CDMA/HSDPA/HSUPA/HSPA+ require the GSM filter module, N1960A-G01. The GSM module will be automatically loaded once the relevant software option is chosen.

3. The license must be purchased under a separate order. This is a US government regulatory requirement. Only one license is required regardless of the number of Option Cxx licenses purchased.

Step 9. Select one system rack, power, and manual option class

Description	Option number	Additional information
One 2.0 m rack	N1960A-B01	N1960A-B01 is not available if PLUS (N1960A-W42, -W72, -C42, or/and -C72) is required
Two 1.6 m racks	N1960A-B02	
Single phase AC power 100 V	N1960A-100	Select one
Single phase AC power 120 V	N1960A-120	
Single phase AC power 220 V	N1960A-220	
Single phase AC power 240 V	N1960A-240	
With physical instrument manual	N1960A-ABA	<ul style="list-style-type: none"> • Select one of these two options. (N1960A-ABA is the default) • For customers with an existing manual that do not require an additional copy
No physical instrument manual	N1960A-OBO	

Step 10. Select other accessories (Multiple options can be selected)

Description	Option number	Additional information
Instruments with ISO17025 Accredited Calibration Test data	N1960A-1AC	This option is only applicable to the conformance application. -1AC is one step higher than -1A7 (ISO17025 compliance) because -1AC instructs the ISO17025 calibration to be done by Accredited Labs
Multi-UUT selector	N1960A-MS1	
10776 test library	N1960A-AT1	
Enable TELEC for all supported technology formats	N1960A-TE1	
Enable TELEC for TS 34.121-1 DVT CORE Rel. 99/4/5	N1960A-TE2	Limited release. Available under exclusive agreement. Contact your Agilent Sales Representative for details
Enable TELEC for TS 34.121-1 DVT EXTENSION Rel. 6 software	N1960A-TE3	
Enable TELEC for C.S0011 and C.S0033 DVT CORE sections software	N1960A-TEA	
Enable TELEC for C.S0033 DVT EXTENSION 1xEVDO Rev. B software	N1960A-TEB	
Enable TELEC test model feature	N1960A-TMT	
cdma2000 Band 10 supplementary test cases – licensed is fixed and perpetual	N1960A-SN1	
Special C.S0011 and C.S0033 DVT sections software – license is fixed and perpetual	N1960A-WB1	Limited release. Available under exclusive agreement. Contact your Agilent Sales Representative for details
Special TS51.010-1 DVT sections - software license is fixed and perpetual	N1960A-WF1	

Based on the selections made in Steps 1 to 10, the following items are automatically selected. This section requires no action and is provided for information only

Description	Option number	Additional information
Standard hardware with Option CFE		
Main E5515 (8960)		
Main E5515E with digital bus	N1960A-8EM	Default
E5515C with Options 002, 003, and 004	N1960A-234	Selected if PLUS (N1960A-W42, -W72, -C42 or -C72) is/are required
Customer-installed economic signal generator	N1960A-080	Included if N1960A-CF8 is selected in Step 6
Auxiliary 1 E5515 (8960)		
Auxiliary 1 E5515E with digital bus	N1960A-8E1	Included when PLUS and N1960A-W78 or -C78 are required; or when N1960A-Q01, -Q03 -Q05, -Q06, -Q07, or -Q08 is selected
Customer-installed auxiliary 1 momentum	N1960A-180	Included if N1960A-CF8 is selected in Step 6
Auxiliary 2 E5515 (8960)		
Auxiliary 2 E5515E with digital bus	N1960A-8E2	Included when N1960A-Q06 or N1960A-Q07 is selected
Customer-installed auxiliary 2 momentum	N1960A-280	Included if N1960A-CF8 is selected in Step 6
E4445 (PSA)		
		Both the MXA and PSA are supported with all the software. However, a new PLUS (with N1960A-W42, -W72, -C42, or -C72) system will ship with the PSA. Alternatively, the customer has the option to use an MXA instead of a PSA by selecting N1960A-CFA in Step 6
GSM/GPRS, EGPRS, W-CDMA, HSDPA, cdma2000, and 1xEV-DO only	N1960A-P00	Included if N1960A-ALL and N1960A-W42, -W72, -C42, or -C72 are selected in Steps 2 and 3
GSM/GPRS, EGPRS, W-CDMA, HSDPA, and TD-SCDMA only	N1960A-P24	Included if N1960A-UMT and N1960A-W42, -W72, -C42, or -C72 are selected in Steps 2 and 3
cdma2000 and 1xEV-DO only	N1960A-P03	Included if N1960A-C2K and N1960A-W42, -W72, -C42, or -C72 are selected in Steps 2 and 3
Customer-installed performance signal analyzer	N1960A-P80	Included if N1960A-CFA is selected in Step 6
N9020 (MXA)		
Default		
GSM/GPRS, EGPRS, W-CDMA, HSDPA, cdma2000, and 1xEVDO only	N1960A-X00	Included if N1960A-ALL is selected in Step 2
GSM/GPRS, EGPRS, W-CDMA, HSDPA, and TD-SCDMA only	N1960A-X24	Included if N1960A-UMT is selected in Step 2
cdma2000 and 1xEV-DO only	N1960A-X03	Included if N1960A-C2K is selected in Step 2
Customer-installed MXA signal analyzer	N1960A-X80	Included if N1960A-CFA is selected in Step 6
E4438 (ESG)		
With options 400, 401, 402, 403, QZU, R07, and R08: • W-CDMA and CDMA, and TDMA/GSM GPRS/EDGE • Includes calibrated noise AWGN and Signal Studio for 3GPP2 CDMA-N6701B personalities	N1960A-E00	Included if N1960A-ALL is selected in Step 2
With options 400, 402, and 403: • W-CDMA and TDMA/GSM/GPRS EDGEcalibrated noise AWGN personalities	N1960A-E12	Included if N1960A-UMT is selected in Step 2
With options 401, 403, QZU, R07, and R08: • CDMA and calibrated noise AWGN • Signal Studio for 3GPP2 CDMA-N6701B personalities	N1960A-E03	Included if N1960A-C2K is selected in Step 2
With options 401, 402, 403, QZU, R07, and R08: • CDMA and calibrated noise AWGN • Signal Studio for 3GPP2 CDMA-N6701B personalities	N1960A-EB3	Included if N1960A-C2K and N1960A-W8B are selected in Steps 2 and 3

Based on the selections made in Steps 1 to 10, the following items are automatically selected. This section requires no action and is provided for information only

Description	Option number	Additional information
Standard hardware with Option CFE		
E4438 (ESG)		
With options 402 and 403: • TDMA/GSM/GPRS/EDGE and calibrated noise AWGN personalities	N1960A-E01	Included if N1960A-ALL is selected in Step 2
Customer-installed ESG	N1960A-E80	Included if N1960A-UMT is selected in Step 2
E8257D (PSG)		
E8257D PSG analog signal generator	N1960A-G00	Default
Customer-installed PSG	N1960A-G80	Included if N1960A-CFP is selected in Step 6
Anite Processor (PLUS)		
PLUS 1 package	N1960AS-AN1	Included if N1960A-W42, -W72, -C42, or -C72 is selected, and if N1960A-CFI is not selected in Step 3a or Step 3b
No Anite Instrument installed	N1960AS-AN0	• Default • Included if N1960A-CFI is selected in Step 6
General hardware and firmware		
N1961A RF/IF interface Option 003. Contains both fading and W-CDMA Band VI	N1960A-R04	Default
Add-on RF interface	N1960A-R14	• Included if N1960A-W71, -W76, -W8B, -C71, or -C76 is selected in Step 3a or Step 3b; or if N1960A-Q01, -Q02, -Q03, -Q05, -Q06 or if -Q07 is selected Step 5 • Quantity required is 1, regardless of multiple selections
N1962A GSM filter module	N1960A-G01	Included if either the N1960A-ALL or -UMT is selected in Step 2
Communication system power supply 66319D	N1960A-D01	Default
Single channel power meter E4418B	N1960A-M00	Default
Average power sensor E9304A-H18	N1960A-N00	Default
Signal Studio for GSM/EDGE: N7602BL-1FP, -EFP, and -FFP	N1960A-ST2	Included if either N1960A-W20 or -C20 is selected in Step 3a or Step 3b
Signal Studio for TD-SCDMA: N7612BL-1FP, -EFP, -FFP	N1960A-ST3	Included if N1960A-CT1 and/or N1960A-WT1 is selected in Step 3a or Step 3b
All instruments with Option 1A7	N1960A-1A7	• Included if either the N1960A-DNR or -RCT is selected in Step 1 • Forwards the key measurement instrument for IS017025 calibration • Prerequisite for conformance application
All the core material such as racks, rack fans, power distribution units, cabling, etc.	N1960A-AT0	Default



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