



# Agilent Technologies

## Signaling Advisor – 37907A

Configuration Guide



**Use this guide when ordering  
An Agilent Signaling Advisor**



**Agilent Technologies**

## Signaling Advisor Software

The Signaling Advisor family consists of a series of solutions targeted at key signaling applications (SS7, GSM/GPRS and cellular/PCS). Both monitor and emulation capabilities are available as one integrated solution.

Simply configure the instrument solution that fits your test need. Order the Signaling Advisor software, decode options, instrument mainframe, interface modules and accessories as required.

Existing Signaling Advisors can be enhanced further using the 37908A upgrade product. For example, add cellular/PCS capability to a Signaling Advisor with GSM/GPRS capability to obtain a full SS7/GSM/cellular/PCS signaling test solution.

For full details of all Signaling Advisor family products, see the Related Literature section).

**Note:**

*Please contact your RSE for more detailed information on any product, or for specifications not listed.*

## Ordering a New Signaling Advisor

Order Signaling Advisor software, the dedicated instrument mainframe and link interface modules along with any additional protocol decodes or software options you may require.

Product	Description	Check box
<b>Monitor Application</b> Qty__	<b>37908A</b>  <b>Signaling Advisor Base Software</b>  Application will be pre-installed in 37907A mainframe. The basic 37908A software includes SS7, Intelligent Network, High Speed SS7 and national variant protocols as standard. These include ETSI, ITU-T, ANSI and Telcordia standards.	
	37908A - 200 License to run PC-only off-line analysis	<input type="checkbox"/>

Product	Description	Check box
<b>Additional Capability</b>	<b>37908A - 011</b> <b>Access Network Protocol Support.</b> Includes ITU-T Q.921/Q.931, ETSI DSS1 + supplementary services, ETSI V5.1/V5.2, QSIG and X.25/X.75.	<input type="checkbox"/>
	<b>37908A - 012</b> <b>GSM phase 2 and 2+ Protocol Support</b> GSM and GPRS SS7-based protocol decodes Includes A-Bis, BSSAP, BSSMAP, DTAP, MAP, CAP, ISUP and BSSAP+ protocols.	<input type="checkbox"/>
	<b>37908A - 013</b> <b>Cellular/PCS Protocol Support</b> IS-41A/B/C/D, IS-634, IS-771 and IS-835 protocol decodes.	<input type="checkbox"/>
	<b>37908A - 043</b> <b>GPRS Decodes for the Gb Interface</b> Includes protocols for use on the Gb and Gn/Gi/Gp interfaces.	<input type="checkbox"/>
	<b>37908A - 120</b> <b>Emulite Graphical Emulation Capability</b> Graphical emulation creation and execution environment.	<input type="checkbox"/>

Product	Description	Check box
<b>Vendor Variants</b>	37908A - 044 <b>Lucent MAP and IS-41 Variation Decodes</b> Provides support for the Lucent variant of IS-41 protocol.	Qty__
	37908A - 050 <b>Lucent A-bis Proprietary Extensions</b> Includes TRAU support.	Qty__
	37908A - 051 <b>Nokia GSM/GPRS A-bis Proprietary Extensions</b> Includes TRAU support.	Qty__
	37908A - 052 <b>Ericsson A-bis Proprietary Extensions</b> Includes TRAU support.	Qty__
	37908A - 053 <b>Alcatel A-bis Proprietary Extensions</b> Includes TRAU support.	Qty__
	37908A - 054 <b>Nortel A-bis Proprietary Extensions</b> Includes TRAU support	Qty__
	37908A - 055 <b>Motorola A-bis Protocol Support</b> Includes TRAU support.	Qty__
	37908A - 056 <b>Siemens A-bis Protocol Support</b> Includes TRAU support.	Qty__
	37908A - 057 <b>Siemens INAP Protocol Support</b>	Qty__

Product	Description	Check box
<b>Software License</b>	37908A - 200 <b>License to use the 37908A application on a PC other than the instrument mainframe.</b>	<input type="checkbox"/>
	J5458A <b>3G UMTS W-CDMA Test Software</b> Enables monitoring capability of UMTS protocols in the ATM software	<input type="checkbox"/>
	J5488A <b>3G cdma2000 Test Software</b> Enables monitoring cabability of cdma2000 protocols	<input type="checkbox"/>

Product	Description	Check box
<b>Mainframe</b>  With the 37907A mainframe you receive a 15992A clock/external trigger synchronization cable.  Note: Either option ABA or AB2 MUST be ordered with every mainframe.	<b>37907A</b>	<b>Signaling Advisor Mainframe</b> Includes Windows®98. Supports up to two link interface modules (LIMs).  Qty__
	37907A - UK6	<b>Calibration Data and Certificate</b>  <input type="checkbox"/>
	37907A - ABA	<b>US English Localization</b>  <input type="checkbox"/>
	37907A - AB2	<b>Chinese Localization</b> A CD ROM drive is supplied.  <b>Warranty and Support - Hardware</b> 3-year return-to-Agilent Technologies repair service.  <input type="checkbox"/>

Product	Description	Check box
<b>Undercradles</b>	<b>E7577A</b>  <b>LIM Expansion Undercradle</b> Supports a further two Link Interface Modules (LIMs).  <b>Warranty and Support - Hardware</b> 3-year return-to-Agilent Technologies repair service.	Qty__  <input type="checkbox"/>
	<b>E7578A</b>  <b>Fast Ethernet Undercradle</b>  <b>Warranty and Support - Hardware</b> 3-year return-to-Agilent Technologies repair service.	Qty__  <input type="checkbox"/>
	<b>J2900A</b>  <b>High Speed Undercradle</b> Supports 1 ATM link interface module	Qty__

Product	Description	Check box	
<b>LIMs (Link Interface Modules )</b>	At least one LIM required, maximum of two per mainframe and a further two if E7577A undercradle ordered. Signaling Advisor supports any combination of link interface modules (LIMs).		
<p>Each E7571A is supplied with 2 bantam to Siemens 3-pin cables (E4552A) and a single bantam-bantam test cable.</p> <p>More cables can be ordered if required.</p> <p>To connect to 4 physical interfaces a total of 8 cables are required per LIM.</p>	<b>E7571A</b>	<b>E1 Balanced Link Interface Module</b>	<b>Qty__</b>
	E7571 - AUK6	<b>Calibration Data and Certificate</b>	<input type="checkbox"/>
		<b>Warranty and Support - Hardware</b> 3-year return-to-Agilent Technologies repair service.	<input type="checkbox"/>
<p>Each E7572A is supplied with 2 BNC to BNC snap-on cables (E4555A) and a Single BNC-BNC test cable. More cables can be ordered if required.</p> <p>To connect to 4 physical interfaces a total of 8 cables are required per LIM.</p>	<b>E7572A</b>	<b>E1 Unbalanced Link Interface Module</b>	<b>Qty__</b>
	E7572A - UK6	<b>Calibration Data and Certificate</b>	<input type="checkbox"/>
		<b>Warranty and Support - Hardware</b> 3-year return-to-Agilent Technologies repair service.	<input type="checkbox"/>
<p>Each E7573A is supplied with 2 bantam to bantam cables (15670A) and a Single short bantam-bantam test cable.</p> <p>More cables can be ordered if required. To connect to 4 physical interfaces a total of 8 cables are required per LIM.</p>	<b>E7573A</b>	<b>T1 Link Interface Module</b>	<b>Qty__</b>
	E7573A - UK6	<b>Calibration Data and Certificate</b>	<input type="checkbox"/>
		<b>Warranty and Support - Hardware</b> 3-year return-to-Agilent Technologies repair service.	<input type="checkbox"/>
<p>Each E7574A is supplied with 2 x SCSI1 to SCSI2 (J4208A) cables, 2 x SCSI2 to V.35 Y connectors (J4201A) to provide connection to up to 4 V.35 interfaces. A test cable (J4204A) is also included.</p> <p>Cables are also available for RS-232 and RS-449. "Y" cables are available for monitoring. Contact your local Agilent representative for details.</p>	<b>E7574A</b>	<b>V.35 Link Interface Module</b>	<b>Qty__</b>
	E7574A - UK6	<b>Calibration Data and Certificate</b>	<input type="checkbox"/>
		<b>Warranty and Support - Hardware</b> 3-year return-to-Agilent Technologies repair service.	<input type="checkbox"/>
	<b>E7575A</b>	<b>Link Interface Module</b>	<b>Qty__</b>
	E7575A - UK6	<b>Calibration Data and Certificate</b>	<input type="checkbox"/>
		<b>Warranty and Support - Hardware</b> 3-year return-to-Agilent Technologies repair service.	

Product	Description	Check box
<b>LIMs (Link Interface Modules )</b> <i>Continued</i>	<b>E7575A Link Interface Module</b>	Qty__
	E7575A - UK6 <b>Calibration Data and Certificate</b>  <b>Warranty and Support - Hardware</b> 3-year return-to-Agilent Technologies repair service.	<input type="checkbox"/>   <input type="checkbox"/>
	<b>J2912B STM-1/OC-3 Link Interface Module for the J2900A Undercradle</b>  Each J2912B is supplied with SC-PC optical connectors	Qty__  <input type="checkbox"/>
	<b>J2298D E1/T1 ATM Link Interface Module for the J2900A Undercradle</b>  Each J2298D is supplied with RJ-45/RJ-48C and mini bantam connectors.	Qty__  <input type="checkbox"/>
	<b>J2294D E1/T1 ATM Link Interface Module for the J2900A undercradle.</b>  Each J2294D is supplied with DB-9/RJ-45 connectors.	Qty__  <input type="checkbox"/>
	<b>J2296D E1 ATM Link Interface Module for the J2900A Undercradle.</b>  Each J2296D is supplied with BNC connectors.	Qty__  <input type="checkbox"/>

Product	Description	Check box
<b>Accessories</b>	<b>J2305A</b> <b>Soft Carrying Case</b>	Qty__
	<b>J2514A</b> <b>Wheeled Soft Carrying Case</b>	Qty__
	<b>J2885A</b> <b>Hard Transit Case</b>	Qty__
	<b>15722A</b> <b>Telephone handset and Cable</b>	Qty__
		<b>Warranty and Support - Hardware</b> 3-year return-to-Agilent Technologies repair service.
<b>Cables</b>	<b>E4552A</b> <b>3m Bantam (M) to 3-Pin(M) Balanced Cable</b>	Qty__
	<b>E4553A</b> <b>0.3m Bantam (M) to 3-Pin (F) Balanced Adapter</b>	Qty__
	<b>E4554A</b> <b>3m BNC (M) to 1.6/5.6(M) Coaxial Cable</b>	Qty__
	<b>E4555A</b> <b>3m BNC (M) to BNC(M) Snap-on Coax cable</b>	Qty__
	<b>15670A</b> <b>3m Bantam(M) to Bantam(M) Balanced Cable.</b>	Qty__
Product	Description	Check box

**Example  
New Instrument Order**

A customer Operator A requires a four-link monitor version and emulation Signaling Advisor with the following decodes and accessories.

- GSM and SS7 ITU-T recommendations
- GPRS decodes
- E1 (75 ohm unbalanced) 4-link interface with BNC female connectors
- Cables to present a male BNC interface to device under test
- Fast Ethernet Interface
- US English language
- 5-year warranty



<b>Product</b>	<b>Description</b>	<b>Check box</b>	
<b>Mainframe</b>	<b>37907A</b> <b>Signaling Advisor Mainframe</b>	<b>Qty_1_</b>	
	37907A - ABA <b>US-English Localization</b>	<input type="checkbox"/>	
		<b>Warranty and Support - Hardware</b> 3-year return-to-Agilent Technologies repair service.	<input type="checkbox"/>
	<b>37908A</b> <b>Signaling Advisor Base Software</b> (includes all SS7 decodes required such as MTP, SCCP, ISUP, TCAP etc.)	<b>Qty_1_</b>	
	37908A - 012 <b>GSM Phase 2 and 2+ Protocol Support</b> (Includes GSM phases 1/2/2+, CAMEL, enhanced SS7 for GPRS).	<input type="checkbox"/>	
37908A - 043 <b>GPRS decodes for the Gb Interface</b> (includes Gb, Gn, Gi and Gp protocol support).	<input type="checkbox"/>		
37908A - 120 <b>Emulite Graphical Emulation Capability</b>	<input type="checkbox"/>		
<b>E7572A</b> <b>E1 Unbalanced Link Interface Module</b>	<b>Qty_1_</b>		
	<b>Warranty and Support - Hardware</b> 3-year return-to-Agilent Technologies repair service.	<input type="checkbox"/>	
Note: Customer will receive the Signaling Advisor with applications/ decodes pre-installed, plus (as backup) one CD, plus keycode(s) to unlock purchased capability.	<b>E4555A</b> <b>3m BNC (M) to BNC (M) Snap-on Coax Cable</b>	<b>Qty_6_</b>	
	<b>E7578A</b> <b>Fast Ethernet Undercradle</b>	<b>Qty_1_</b>	

## Updates and Enhancements

The Signaling Advisor is updated/enhanced using a CD (15851A) containing all applications and decodes available for the instrument. Only the capability ordered can be accessed (via keycodes that are unique to individual customers and the CD). All orders must include details of customer name, existing Signaling Advisor serial number and current keycode.

Note: The CD-ROM drive (included with the 37907A mainframe) is essential for updating/upgrading applications or decodes, or if you need to reinstall software.

Product	Description	Check box
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### Application CD

Note: When ordering updates or enhancements, you must quote the customer ID, instrument serial number and existing capability key code.

<b>15851A</b>	<b>Upgrade Existing Signaling Advisor Software</b>	Qty__
15851A - ABA	<b>US English Localization</b>	<input type="checkbox"/>
15851A - AB2	<b>Chinese Localization</b>	<input type="checkbox"/>

Product	Description	Check box
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### Additional Capability

15851A - 011	<b>Access Network Protocol Support</b> Includes ITU-T Q.921/Q.931, ETSI DSS1 + supplementary services, ETSI V5.1/V5.2, QSIG and X.25/X.75.	<input type="checkbox"/>
15851A - 012	<b>GSM Phase 2 and 2+ Protocol Support</b> GSM and GPRS SS7 - based protocol decodes Includes A-Bis, BSSAP, BSSMAP, DTAP, MAP, CAP, ISUP and BSSAP+ protocols.	<input type="checkbox"/>
15851A - 013	<b>Cellular/PCS Protocol Support</b> IS-41A/B/C/D, IS-634, IS-771 and IS-835 protocol decodes.	<input type="checkbox"/>
15851A - 043	<b>GPRS Decodes for the Gb Interface</b> Includes protocols for use on the Gb and Gn/Gi/Gp interfaces.	<input type="checkbox"/>
15851A - 120	<b>Emulite Graphical Emulation Capability</b> Graphical emulation creation and execution environment.	<input type="checkbox"/>

Product	Description	Check box
<b>Vendor Variants</b>		
15851A - 044	<b>Lucent MAP and IS-41 Variation Decodes</b> provide support for the Lucent variant of IS-41 protocol.	<input type="checkbox"/>
15851A - 050	<b>Lucent A-bis Proprietary Extensions</b> Includes TRAU support	<input type="checkbox"/>
15851A - 051	<b>Nokia A-bis Proprietary Extensions</b> Includes TRAU support.	<input type="checkbox"/>
15851A - 052	<b>Ericsson A-bis Proprietary Extensions</b> Includes TRAU support	<input type="checkbox"/>
15851A - 053	<b>Alcatel A-bis Proprietary Extensions</b> Includes TRAU support.	<input type="checkbox"/>
15851A - 054	<b>Nortel A-bis Proprietary Extensions</b> Includes TRAU support.	<input type="checkbox"/>
15851A - 055	<b>Motorola A-bis Proprietary Extensions</b> Includes TRAU support.	<input type="checkbox"/>
15851A - 056	<b>Siemens A-bis Proprietary Extensions</b> Includes TRAU support.	<input type="checkbox"/>

### Software Licenses

Contact your local Agilent representative for availability

15851A - 200	<b>Off-line PC Software</b> License to use the 37908A application on a PC other than the instrument mainframe.	<input type="checkbox"/>
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### Additional Hardware

† May require PC/OS upgrade. Please provide serial number of 37907A.

<b>E7577A</b>	<b>Link Expansion Undercradle</b>	<b>Qty__</b>
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Please contact your Agilent representative for further information.

<b>E7578A†</b>	<b>Fast Ethernet Undercradle</b>	<b>Qty__</b>
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**Example Upgrade Order**  
(adding capability to an existing instrument)

Customer Operator\_B wants to add GSM and GPRS decodes to a Signaling Advisor.

Product	Description	Check box
<p>Note: The selection of option ABA or AB2 indicates the version of documentation that will be provided. It does not provide an upgrade from one option to the other. Please contact your Agilent representative to upgrade and existing Signaling Advisor to option AB2.</p> <p>Note: Customer will receive a CD plus key code to unlock purchased capability and allow customer to upgrade instrument.</p>	<b>15851A Upgrade Existing Signaling Advisor Software</b>	<b>Qty_1_</b>
	15851A - 012 <b>GSM Phases 2 and 2+ Protocol Support</b>	<input type="checkbox"/>
	15851A - 043 <b>GPRS Decodes for the Gb Interface</b>	<input type="checkbox"/>
<p>Customer name: Operator_B Signaling Advisor Serial No.: GB0000nnnn Existing key code: aaaaa-bbbbb-cccc-nn</p>		

**Agilent Signaling Advisor for use on a PC**

Customers who own or purchase the instrument version of the Signaling Advisor can also obtain a copy of the software (37908A Option 200) to run on a stand-alone PC. All orders by existing owners of the Signaling Advisor must include details of customer name, existing Signaling Advisor serial number and current key code. By providing this information, the CD provided will contain the same decodes ordered with the instrument.

Product	Description	Check box
<b>Application CD</b>		
<b>37908A</b>	<b>Signaling Advisor Base Software</b>	<b>Qty__</b>
37908A - 200	<b>License to run PC-only Monitor Application on One PC</b>	<input type="checkbox"/>
<p>Note: When ordering updates or enhancements, you must quote the customer name, instrument serial number and existing capability key code.</p> <p>Requires minimum of Pentium® PC running Windows® 95/98, 32 MB RAM, 2 GB disk, CD-ROM drive.</p>		

*Microsoft® is a U.S. registered trademark of Microsoft Corp.  
Windows® is a U.S. registered trademark of Microsoft Corp.  
Pentium® is a U.S. registered trademark of Intel Corp.*

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You can also contact one of the following centers and ask for a Communications Services Solutions representative.

Argentina	+54 11 5811 7115
Australia	1 800 629 485
Austria	+43 (0) 25 125 7006
Belgium	+32 (0) 2 404 9340
Brazil	+55 11 4197 3600
Canada-English	877 894 4414
Canada-French	877 894 4414
China	800 810 0189
Denmark	+45 70 13 15 15
Finland	+358 (0) 10 855 2100
France	+33 (0) 825 010 700
Germany	+49 (0) 18 05 24 63 33
Hong Kong	800 930 871
India	1600 112 929
Ireland	+353 1890 924 204
Israel	+972 3 6892 500
Italy	+39 02 92 60 8484
Japan	0120 421 345
Luxemborg	+32 (0) 2 404 9340
Malaysia	1800 888 848
Mexico	+52 01800 506 4800
Netherlands	+31 (0) 20 5472111
Norway	+47 23 25 3720
Philippines	1800 1651 0170
Poland	+48 22 723 0066
Russia	+7 095 797 3963
Singapore	1800 375 8100
South Korea	080 769 0800
Spain	+34 91 631 3300
Sweden	0200 88 22 55
Switzerland-German	+41 (0) 1 735 9300
Switzerland-Italy	+39 (0) 2 92 60 8484
Switzerland-French	+33 (0) 825 010 700
Taiwan	0800 047 866
Thailand	1800 226 008
United Kingdom	+44 (0) 7004 666666
USA	800 452 4844

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