

Keysight U8903B Performance Audio Analyzer



Configuration
Guide

Notices

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Configuring the U8903B Performance Audio Analyzer

This step-by-step process will help you configure your performance audio analyzer. Tailor the performance to meet your requirements.

For detailed specifications, refer to the U8903B Performance Audio Analyzer data sheet (<http://literature.cdn.keysight.com/litweb/pdf/5991-4551EN.pdf>).

The standard U8903B Performance Audio Analyzer includes:

- U8903B-STD performance audio analyzer with 2 analog generator channel and 2 analog analyzer channel.
- Product Reference CD-ROM, contains the User's Guide, Quick Start Guide, and Programming Guide.
- Certificate of Calibration
- Safety Notices
- Supplied accessories:
 - USB cables
 - Power cord (plug matches destination requirements)

Step 1: Select measurement channel options

Keysight provides you the flexibility to select the measurement option combinations to meet your needs.

Table 1-1 Measurement channel options

Option number	Description	Additional information
U8903B-STD	Performance audio analyzer, 2 channels	2 channels analog generator and 2 channels analog analyzer (at product front panel).
U8903B-AN4	Analog analyzer, 4 channels	2 channels analog generator and 4 channels analog analyzer (with 2 channels at the product rear panel).
U8903B-AN8	Analog analyzer, 8 channels	2 channels analog generator and 8 channels analog analyzer (with 6 channels at the product rear panel).
U8903B-DGT	Digital audio card	This option provides the industry standard AES3/ SPDIF, DSI, and TOSLINK (optical) connections. Once this hardware option is selected, the N3434A digital audio software option will be selected. Refer to " Step 2: Select software options " on page 7 for more information.
U8903B-BLU	<i>Bluetooth</i> [®] card	2 RF connectors.
U8903B-BL2	<i>Bluetooth</i> card, secondary option slot	2 RF connectors at a secondary option slot. This is only applicable when U8903B-AN8 is selected. Refer to " " " on page 5 for more information.

NOTE

- By default, U8903B-STD will be selected when extra channels, digital audio card, or *Bluetooth* card option is added.
- U8903B provides flexibility in configuring the measurement option in order to tailor to customer application needs. U8903B does not allow field upgrade post ordering. All order combination has to be configured upon ordering.

Table 1-2 Order combinations

Order combinations	Description
U8903B-STD	<ul style="list-style-type: none">- Standard box- 2 analog analyzer channels (front panel)- 2 analog generator channels (front panel)
U8903B-AN4	<ul style="list-style-type: none">- Standard box- 2 analog analyzer channels (rear panel)
U8903B-AN8	<ul style="list-style-type: none">- Standard box- 6 analog analyzer channels (rear panel)
U8903B-AN4 + U8903B-DGT	<ul style="list-style-type: none">- Standard box- 2 analog analyzer channels (rear panel)- Digital audio card
U8903B-AN8 + U8903B-DGT	<ul style="list-style-type: none">- Standard box- 6 analog analyzer channels (rear panel)- Digital audio card
U8903B-DGT	<ul style="list-style-type: none">- Standard box- Digital audio card
U8903B-BLU	<ul style="list-style-type: none">- Standard box- <i>Bluetooth</i> card
U8903B-DGT + U8903B-BLU	<ul style="list-style-type: none">- Standard box- Digital audio card- <i>Bluetooth</i> card
U8903B-AN4 + U8903B-BLU	<ul style="list-style-type: none">- Standard box- 2 analog analyzer channels (rear panel)- <i>Bluetooth</i> card
U8903B-AN4 + U8903B-DGT + U8903B-BLU	<ul style="list-style-type: none">- Standard box- 2 analog analyzer channels (rear panel)- Digital audio card- <i>Bluetooth</i> card
U8903B-AN8 + U8903B-BL2	<ul style="list-style-type: none">- Standard box- 6 analog analyzer channels (rear panel)- <i>Bluetooth</i> card

Table 1-3 Bundling options

Option number	Description	Additional information
U8903B-201	Performance audio analyzer with 4 analog analyzer channels and digital audio card (AES3/SPDIF and DSI digital audio).	This bundling option consists of 4 analog analyzer channels (with 2 channels at the product rear panel) and digital audio card with N3434A digital audio software option (refer to “Step 2: Select software options” on page 7 for more information).
U8903B-209	Performance audio analyzer; 2 channels with 50 ohm impedance.	-
U8903B-210	Performance audio analyzer with 4 analog analyzer channels, digital audio card (AES3/SPDIF and DSI digital audio), and <i>Bluetooth</i> .	This bundling option consists of 4 analog analyzer channels (with 2 channels at the product rear panel), digital audio card with N3434A digital audio software option (refer to “Step 2: Select software options” on page 7 for more information), and <i>Bluetooth</i> card.
U8903B-211	Performance audio analyzer; 2 channels with 50 ohm impedance and <i>Bluetooth</i> .	-
U8903B-212	Performance audio analyzer; 96 khz bandwidth, 2 channels with 50 ohm impedance.	-

Step 2: Select software options

Table 1-4 Software options

Option number		Description	Additional information
Fixed license	Upgrade license		
N3431A	N3431A	Wide bandwidth option – 1.5 MHz (fixed perpetual license)	This software option offers 2 analog analyzer channels (at the product front panel); channel 1 and channel 2, each with 1.5 MHz bandwidth. Additional analog analyzer channels (at the product rear panel) are limited to 96 kHz bandwidth. This software option does not upgrade the analog generator bandwidth.
N3433A	N3433A	POLQA and PESQ measurement software (fixed perpetual license)	This software option enables all the analog generator/analyzer to perform both POLQA and PESQ measurements.
N3434A	N/A	AES3/ SPDIF and DSI digital audio (fixed perpetual license)	This option enables the AES3/ SPDIF and DSI digital audio option. This option is only orderable with U8903B-DGT.

NOTE

- All software options are fixed perpetual licenses and are tied to the individual performance audio analyzer.
- All software can be purchased together with the performance audio analyzer upon ordering OR as a standalone upgrade. The listed part numbers can be quoted as a standalone upgrade except N3434A which is only orderable with U8903B-DGT.

Step 3: Select accessories options

Table 1-5 Accessories options

Option number	Description	Additional information
U8903A-101	Male BNC to male BNC cable, 1.2 m	–
U8903A-102	Male BNC to male RCA cable, 2 m	–
U8903A-103	Male XLR to female XLR cable 2 m	–
U8903B-105	Digital serial interface cable	–
U8903A-107	Cable, accessory – Male XLR – 2 male BNC analyzer, 0.26 m	This is for the analyzer input to convert the balanced measurement from HP 8903B. For more information, refer to the Migrating Balanced Measurements from HP 8903B to Keysight U8903A Audio Analyzer application note (http://literature.cdn.keysight.com/litweb/pdf/5991-0435EN.pdf)
U8903A-108	Cable, accessory – Female XLR – 2 male BNC generator, 0.26 m	This is for the generator output to convert the balanced measurement from HP 8903B. For more information, refer to the Migrating Balanced Measurements from HP 8903B to Keysight U8903A Audio Analyzer application note (http://literature.cdn.keysight.com/litweb/pdf/5991-0435EN.pdf)
U8903A-109	BNC accessory kit	The kit consists of a BNC socket, a custom threaded metal sleeve, and a BNC plug with a custom center pin. The kit can be used to make an in-line BNC component containing any combination of passive components the user wishes to connect between the input and the output.
U8903A-908	Rackmount kit	132.6H without handle
11500A	Cable assembly, Type-N (male) to Type-N (male), DC to 6.0 GHz	–

Step 4: Select warranty options

Table 1-6 Warranty options

Option number	Description	Additional information
R-51B-001-Z	Warranty 1 year; Return to Keysight	1 year warranty is included at no additional charge.
R-51B-001-5Z	Warranty Assurance Plan 5 years; Return to Keysight	–



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