

Keysight U8903A Audio Analyzer

Make an audible difference in analog and digital audio testing

Now, with a two-in-one digital audio interface card that provides AES3/SPDIF and Digital Serial Interface (DSI) digital audio formats, Keysight Technologies, Inc. U8903A offers you the flexibility to measure and quantify both analog and digital audio performance in applications such as analog and digital IC components and module design, wireless audio and consumer audio.

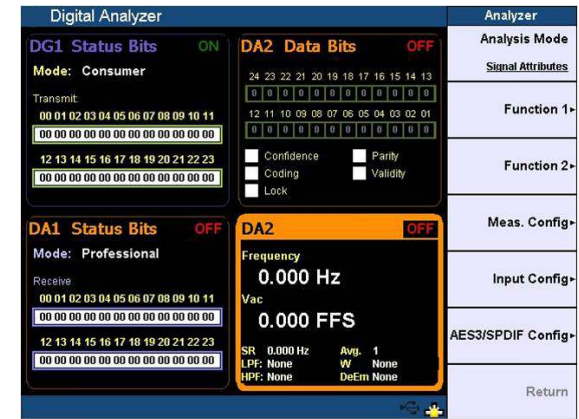


Easily perform manual and automated tests

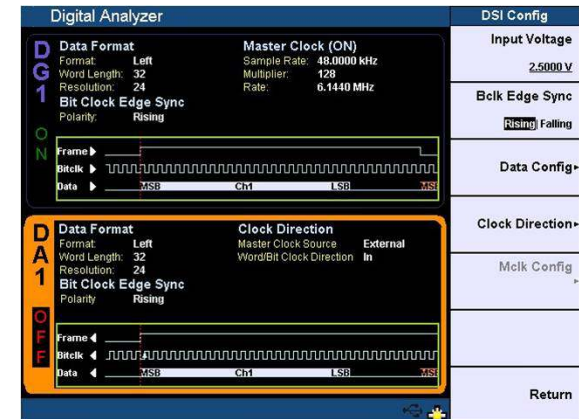
- Measure a variety of applications with a wide logic level input range of 1.2 V to 3.3 V
- View up to four channels simultaneously on the U8903A's 5.7-inch color display
- Access four main operating modes - generator, analyzer, graph and sweep - through the front panel soft keys

Cover your application needs with multiple digital audio interface options

- Test digital audio related ICs with AES3/SPDIF and DSI digital audio formats
- Verify digital audio designs with multiple DSI formats: I²S, Left Justified, Right Justified and DSP



View up to four channels – two for analog, two for digital – at the same time



The new digital audio interface options offer AES3/SPDIF and DSI standard digital audio formats

Key Specifications (Digital Audio)

Formats		
AES3/SPDIF		Consumer or professional
DSI		I ² S, Left Justified, Right Justified, DSP
Generator		
Audio bit	Both formats	8 bit to 24 bit
Output sampling rate	AES3/SPDIF	28 kHz to 205 kHz
	DSI	6.75 kHz to 400 kHz
Input/output level	Balanced	0.3 V _{pp} to 5.1 V _{pp}
	Unbalanced	0.3 V _{pp} to 2.5 V _{pp}
Logic level input (DSI)		1.2 V to 3.3 V
Analyzer		
Analyzer frequency		5 Hz to 0.45 Fs
Frequency accuracy		±5 ppm (10 Hz to 0.45 Fs)
Level range	AC	< -120 dBFS to 0 dBFS
	DC	±1 FFS

www.keysight.com/find/U8903A

Recommended service options

Additional two years of Return-to-Keysight warranty

Additional two years of Return-to-Keysight calibrations

For more information go to www.keysight.com/find/removealldoubt



Three-Year Warranty

www.keysight.com/find/ThreeYearWarranty

Keysight's commitment to superior product quality and lower total cost of ownership. The only test and measurement company with three-year warranty standard on all instruments, worldwide.



Keysight Assurance Plans

www.keysight.com/find/AssurancePlans

Up to five years of protection and no budgetary surprises to ensure your instruments are operating to specification so you can rely on accurate measurements.

Ordering Information

Model number	Description
U8903A-200	Analog audio analyzer, two channels
Standard-shipped accessories	
LAN and USB cables	
Power cord	
Keysight U8903A audio analyzer Quick Start Guide	
Keysight U8903A audio analyzer Product Reference CD-ROM (contains U8903A User Guide)	
USB flash storage device	
Certificate of calibration	
Digital audio interface options	
U8903A-113	Two channels Analog Audio Analyzer, with AES3/SPDIF and DSI digital audio interfaces
U8903A-114	Two channels Analog Audio Analyzer, with AES3/SPDIF digital audio interfaces
U8903A-115	Two channels Analog Audio Analyzer, with DSI digital audio interfaces
Optional accessories	
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
U8903A-908	Rack mount kit – standard 3U
U8903A-105	Digital serial interface cable
Warranty and service	
U8903A-1A7	ISO17025 compliant calibration with test data
U8903A-A6J	ANSI Z540 compliant calibration with test data
R-50C-011-3	Keysight calibration – 3 years
R-50C-011-5	Keysight calibration – 5 years
R-51B-001-3C	Return to Keysight Warranty – 3 years
R-51B-001-5C	Return to Keysight Warranty – 5 years