RIGOL
Innovation or nothing

Excellent Performance, Highly Reliable,

Able to Fully Replace the DSA1000 Series

DSA832E

Spectrum Analyzer

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RIGOL TECHNOLOGIES,INC.

Advantages and Characteristics

- All-Digital IF Technology
- Frequency Range from 100 kHz up to 1 GHz
- Min. -130 dBm Displayed Average Noise Level (Typ.)
- Min. -80 dBc/Hz @ 10 kHz Offset Phase Noise
- Level Measurement Uncertainty <1.5 dB
- 100 Hz Minimum Resolution Bandwidth
- 2FSK modulation signal measurement and analysis function in SSC mode
- Optional EMI pre-compliance test function
- Advanced Measurement Functions (Opt.)
- EMI pre-compliance test function(Opt.)
- EMI Filter & Quasi-Peak Detector Kit (Opt.)
- VSWR Measurement Kit (Opt.)
- Optional RF TX/RX Training Kit
- Optional RF Accessories (Cable, Adaptor, Attenuator, Bridge ...)
- Complete Connectivity: LAN (LXI), USB Host & Device, GPIB (Opt.)
- 8 Inch TFT LCD Display
- Compact Size, Light Weight Design

Brief Technical Parameters

Frequency		
Frequency range	9 kHz to 3.2 GHz	
Frequency resolution	1 Hz	
SSB Phase Noise		
	20℃ to 30℃, f_c=1 GHz	
Carrier offset	10 kHz offset	<-90 dBc/Hz
Amplitude Measurement Range		
Range	f_c≥10 MHz	
	DANL to +20 dBm	
Displayed Average Noise Level (DANL) (Normalized to 1Hz)		
	attenuation = 0 dB, RBW = VBW = 100 Hz, sample detector, trace average ≥ 50, tracking generator off, normalized to 1Hz, 20℃ to 30℃, input impendence = 50 Ω	
PA OFF	<-130dBm (typ.)	
PA ON	<-148dBm (typ.)	
Distortion		
Second harmonic intercept (SHI)	f_c ≥ 50 MHz, input signal level = -20 dBm, attenuation = 10 dB	
	+40 dBm	
Third-order intercept (TOI)	f_c ≥ 50 MHz, two -20 dBm tones at input mixer spaced by 200 kHz, attenuation = 10 dB	
	+7 dBm	

Advantages and Characteristics

- Efficient ASK/FSK modulation analysis kit
- EMI pre-compliance testing
- VSWR and antenna resonant point testing
- Use Built-in tracking source to perform economical and efficient incentive responsemeasurement
- Channel power monitoring and pass/fail verification
- Mass production requirements for the measurement and monitoring of spectral signals
- Applicable to RF industrial region, such as R&D, lower cost manufacture industry etc
- Measurement requirements for electronics fans of spectrum analyzer
- Combined with the Microwave & RF education and training kit; applicable to RF education field; get to deeply understand the theories by practical operations

Price and Application Solutions

Please contact the RIGOL Regional Sales Manager for further information

Ordering Information

	Description	Order Number
Model	spectrum analyzer, 9 kHz to 3.2 GHz	DSA832E
	spectrum analyzer, 9 kHz to 3.2 GHz (with tracking generator, factory installed)	DSA832E-TG
Standard accessories	quick guide (hard copy)	-
	power cable	-
Options	preamplifier, 100 kHz to 3.2 GHz	PA-DSA832
	EMI filter & quasi-peak detector	EMI-DSA800
	advanced measurement kit	AMK-DSA800
	VSWR measurement kit	VSWR-DSA800
	DSA PC software	Ultra Spectrum
Optional accessories	include: N-SMA cable, BNC-BNC cable, N-BNC adaptor, N-SMA adaptor, 75 Ω to 50 Ω adaptor, 900 MHz/1.8 GHz antenna (2pcs), 2.4 GHz antenna (2pcs)	DSA Utility Kit
	include: N(F)-N(F) adaptor (1pcs), N(M)-N(M) adaptor (1pcs), N(M)-SMA(F) adaptor (2pcs), N(M)-BNC(F) adaptor (2pcs), SMA(F)-SMA(F) adaptor (1pcs), SMA(M)-SMA(M) adaptor (1pcs), BNC T type adaptor (1pcs), 50 Ω SMA load (1pcs), 50 Ω BNC impedance adaptor (1pcs)	RF Adaptor Kit
	include: 50 Ω to 75 Ω adaptor (2pcs)	RF CATV Kit
	include: 6dB attenuator (1pcs), 10dB attenuator (2pcs)	RF Attenuator Kit
	30dB high power attenuator, max. power 100W	ATT03301H
	N(M)-N(M) RF cable	CB-NM-NM-75-L-12G
	N(M)-SMA(M) RF cable	CB-NM-SMAM-75-L-12G
	RF demo kit (transmitter)	TX1000
	RF demo kit (receiver)	RX1000
	VSWR bridge, 1 MHz to 2 GHz	VB1020
	VSWR bridge, 1 MHz to 3.2 GHz	VB1032
	VSWR bridge, 800 MHz to 4 GHz	VB1040
	VSWR bridge, 2 GHz to 8 GHz	VB1080
	near field probe	NFP-3
	EMI PC software	S1210 EMI Pre-compliance Software
	rack mount kit	RM-DSA800
	soft carrying bag	BAG-G1
	USB to GPIB interface converter for instrument	USB-GPIB