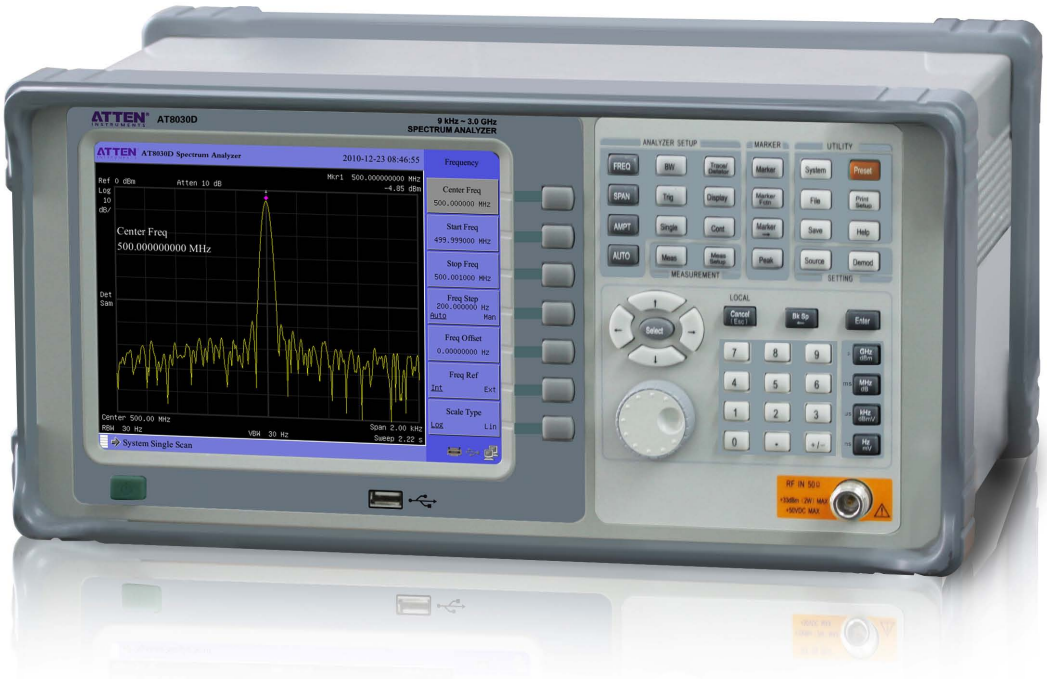
AT8030D

DIGITAL SPECTRUM ANALYZER

9kHz~3GHz



CHARACTERISTICS

- Frequency range: 9kHz~3GHz
- Resolution Bandwidth: 5Hz~3MHz in 1 to 10 steps
- Various measuring functions: frequency measurement, AM/FM demodulation, ACP measurement, chromatogram etc
- Multi-windows modes, Spectrum zooming function
- Display as many as of 5 track lines
- 8.4” LED back-lit display, English operation menu
- Interfaces: USB, LAN, VGA, GPIB, RS232
- Compact structure; metal enclosure

SPECIFICATIONS

Frequency		
frequency range		9kHz–3GHz
resolution	1Hz	1Hz
reading accuracy Internal base (10MHz)		±(frequency reading × reference frequency accuracy +1% × scan width +10% × RBW + 0.5 × [scan width /(scan point-1)]+1Hz)
	Aging	<2ppm / year
	temperature drift	<2ppm (15℃ - 38℃)

RBW	
Range (<1kHz optional)	5Hz~500kHz(in 1 to 10 steps),1MHz, 3MHz
Selectivity (60dB/3dB)	<5:1 rated value (digital implementation, near to Gaussian shape)
accuracy	<5%
Video bandwith(VBW)	10Hz to 3MHz, in 1-3-10 steps

DANL(10Hz resolution bandwidth)	
100MHz	-124dBm
500MHz	-122dBm
900MHz	-120dBm
1.2GHz	-126dBm
1.8GHz	-123dBm
2.2GHz	-121dBm
2.6GHz	-120dBm
3GHz	-118dBm

Phase Noise	
	Deviation: (10kHz : -85dBc/Hz)
	Deviation (1MHz : -100bBc/Hz) <typical value>

※※Attention: typical f=5000MHz, RBW<1kHz, sampling detection, path line average number ≥10

Scanning Time	
Scan width range 100Hz≤SPAN≤3GHz	10ms-3000s
Scan Modes	Continuous, single

Frequency Counter	
Counter resolution	1HZ、10Hz、100Hz、1kHz
Counter Uncertainty	±(frequency reading×reference frequency accuracy + counter resolution)

Amplitude accuracy(20℃~30℃)		
Comprehensive Amplitude accuracy(90℃)	Input single range 0dB – 50dbM	±1.5dB

Amplitude		
Maximum input level	Average continuous power	+33dBm
Maximum dc input voltage	……	50Vdc
Input attenuator range	……	0–50dB
1dB compression point	……	+13dBm

Spurious and Residual Response		
TOI (third order inter -modulation distortion)	>30MHz	+10dBm
Second Harmonic Distortion	……	+40dBm
Input relative spurious signal	……	<-60dBc
Residual Response	……	<-85dBm

Input and output		
RF input		N-type negative （50Ω）
USB		USB2.0 (host); USB2.0 (device)
LAN		10/100 Base-T, connector RJ-45
RS232		9 pins D-SUB (positive)
Reference input or output	10MHz, BNC (negative)	Input power 0dBm to +11dBm Output power 0dBm±2dB
VGA（optional）	800×600，60Hz	15 pins D-SUB（negative）
GPIB（optional）		
		IEEE-488 bus connector

Common Specifications		
Internal data storage	……	256MB to user mode and path
display	LED backlight brightness adjustable	8.4 inch TFT-LCD
maximum weight	……	7.6kg
size		390(W)×182(H)×230(D)mm
	Not including protecting feet.	
Operating temperature	……	0℃ to 45℃
storage temperature	……	-25℃ to +70℃
power supply	Input voltage range	220VAC±15%
	AC frequency range	40Hz to 60Hz
	power consumption	maximum 60W

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