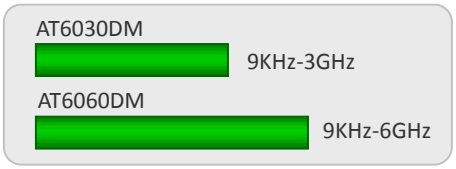
AT6030DM / AT6060DM

SPECTRUM ANALYZER

3GHz / 6GHz



PRODUCT DESCRIPTION

The AT6000DM series is a digital Spectrum Analyzer having a wide bandwidth and dynamic range. It is perfectly suited to the mobile communication bands (CDMA2000, WCDMA)\RF system\broadcast\EMI/EMC test etc.

The 6.4 inch color TFT-LCD display, centronics printer port, USB and internal data storage enhance the instrument. CDMA test functions include ACP, channel power, occupied bandwidth etc, You can enhance the instrument with options including, Tracking Generator, GPIB, LAN and more.

The AT6000DM series offers excellent value for money and you are assured of excellent support

CHARACTERISTIC:

- Measures wide frequency : 9 kHz ~ 3.0 GHz
- Superior Resolution : Minimum 1 Hz
- Compact and lightweight package
- Pre Amp as standard
- Wide Input Dynamic Range : -130 dBm ~ 20 dBm
- Easy and simple Key Buttons
- CDMA measurement functions : ACPR, ACLR, OBW, Channel Power
- Resolution Bandwidth (RBW) : 1 kHz ~ 3 MHz(1-3 Step), 9 kHz, 120 kHz
- Simple usage and convenience 8 Markers, Trace function, Trigger function
- Supports various types of convenient interface
- GPIB(option), RS-232C(option), Printer(supports nearly all types of Printer)
- REF in, REF out functions
- Large capacity internal memory for storing measured data
- Stores measured data up to 900 events
- Stores Setup data up to 3,000 events
- USB Host Port
- Supports USB Printer
- Stores data and applied Image file(GIF) into USB Flash memory
- Ethernet Port and Software(option) for Internet remote control

FREQUENCY

Range	AT6030DM: 9kHz to 3.0GHz / AT6060DM: 9kHz to 6.0GHz
Resolution	Minimum 1Hz
Span Range	100 Hz/div to 300 MHz/div Selection of 1, 2, 5 steps(automatic), ZERO Span, FULL Span (9KHz to 3.0GHz)
Frequency Selection	Start, Stop, Center, Span setup
pan Accuracy	±3% of the Indicated Span Width
Readout Accuracy	≤±(Indicated frequency × Reference frequency accuracy + Span × Span accuracy + 50% of RBW)
Phase Noise	≤ -100dBc/Hz (@ 10kHz offset)

AMPLITUDE		
	Range	+20 dBm ~ -105 dBm, +20 dBm ~ -130 dBm(Pre Amp ON)
	Average Noise Level (1kHz RBW, 10Hz VBW)	≤-105 dBm150 kHz ~ 2.7 GHz ≤-127 dBm(Pre Amp On) 20 MHz ~ 2.7 GHz ≤-100 dBm, -123 dBm(Pre Amp On) 2.7 GHz ~ 3 GHz ≤-130dBm(Pre Amp On) ; Typically
	Amplitude Unit	dBm, dBmV, dBμV, V, mV, μV, W, mW, uW
	Display Scale linearity	≤ ±1.5 dB / 70 dB (10dB / div), ≤ ±1.5dB / 40dB (5dB / div) ≤ ±0.5 dB / 8 dB (1dB / div), ≤ ±0.5dB / 16dB (2dB / div)
	Frequency Response (0 dB attenuation)	-3.5 ~ 1.5 dB (100kHz ~ 10MHz) ±1.5 dB (10MHz ~ 3GHz)
REFERENCE LEVEL		
	Range	-90 dBm to +20 dBm
	Resolution	0.1 dB steps
	Accuracy :	± 1.5 dB
	Second Harmonic Distortion	≤-60 dBc, -40 dBm input
	Inter-modulation Distortion	≤-70 dBc, -40 dBm input
	Residual Spurious	≤-85 dBm (Input terminated, 0 dB attenuation)
	Other Input Spurious	≤-60 dBc, -30 dBm input
RESOLUTION BANDWIDTH		
	Selections	1kHz, 3kHz, 10kHz, 30kHz, 100kHz, 300kHz, 1MHz, 3MHz, 9kHz, 120kHz
	Accuracy	≤ ±20%
	Selectivity	60 dB / 3 dB ratio < 15 : 1 60 dB / 6 dB ratio < 12 : 1 (9 kHz, 120 kHz)
	Switching Error	≤ ± 1.0 dB (1kHz Reference RBW)
	Video Bandwidth	10 Hz to 3 MHz in 1-3-10 step
SWEEP		
	Rate	100 ms to 1000 sec, 40ms to 1000sec(zero span)
	Accuracy	≤ ±20%
	Trigger Source	External(rear), Video, Free Run, Line
	Trigger Modes	continuous, single
	Trigger Level	TTL level
STORAGE		
	Trace Storage	maximum 900 waveforms
	Setup Storage	maximum 3,000 states
SCREEN DISPLAY		
	Type	6.4" color TFT LCD
	Display Resolution	640(H) x 480(V) active display area
	Marker Modes	Peak search, Delta marker, Marker to Center, Marker to Reference (8 markers maximum)

	INPUT	
	RF Input Connector	N-type Female, 50 ohm nominal
	VSWR	150 kHz to 3.0 GHz, VSWR < 1.5 : 1(with 0 dBm Reference Level)
	Maximum input level	0 Vdc, +20 dBm
STANDARD FREQUENCY (10MHz, REF.)		
	Temperature Stability	± 0.5 ppm
	Aging	± 0.5 ppm / Year
	Connector	BNC female
	Input Level	-5 dBm to +15 dBm
	Output Level	10 MHz, +8 dBm nominal
INTERFACE		
	Communication Port	RS-232C
	Printer Driver	PCL Command, HP, EPSON,SAMSUNG,CANON Laser-Jet, Desk-Jet
	Connector	for standard 25 pin female D-Sub parallel printer, supports USB
	USB Host Printer Driver	PCL Command, HP, EPSON, SAMSUNG CANON Laser-Jet, Desk-Jet
	USB Storage Device	Supports 1.1 and 2.0, for storing image file, supports GIF format
	Ethernet(Option)	10-Base-T Ethernet, Supports internet remote control
	GPIB Interface(Option)	IEEE488 bus

GENERAL SPECIFICATIONS

Storage Temperature: - 20℃ To 70℃
RF Emissions : EN 55011, FCC Part15 Section 15.101
RF Immunity : EN 61326
System Size : 350(W) X 195(H) X 370(D)Mm
System Weight : 10kg
Input Voltage : 100~240 VAC At 50/60Hz
Operating Temperature : 0℃ To 40℃

We pursue a policy of continuous development and product improvement. Thus the specifications and picture in this Spec sheet and control location on the front Panel may be changed.

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