HAROGIC

REAL-TIME SPECTRUM ANALYZER EXTEND YOUR RF BOUNDARIES



Extend your RF boundaries

Real-Inne Spectrum Analyteer | Necestres

HAROGIC

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11991GHUS

40 GHZ

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: HAROGIC

SAN-400

Product portfolio



PX series Handheld Real-time Spectrum Analyzer

- Light as 1.5 kg with 10.1-inch touchscreen
- Frequency range up to 40 GHz
- Built-in FPGA for real-time spectrum analysis
- Chanel power, ACPR, OBW, Phase noise and more (std.)



SA series USB Real-time Spectrum Analyzer

- Frequency range up to 40 GHz
- Analysis bandwidth up to 100 MHz
- Sweep speed over 1 THz/s
- Module light as 300 grams



NX series 1 GbE-connected Real-time Spectrum Analyzer

- I GbE-connected for long distance communication
- Frequency range up to 40 GHz
- Compatible with Windows and Linux
- Built-in GNSS (std.)

PX series overview





- Frequency range from 9 kHz to 9.5 GHz
- 1 GHz DANL: -165 dBm/Hz (typ.)
- 1 GHz phase noise: -101 dBc/Hz@10 kHz (typ.)
- Bandwidth: 100 MHz
- 3 hours battery time (typ.)
- Chanel power, ACPR, OBW, Phase noise and more (std.)





Most popular model PXE-200

- Frequency range from 9 kHz to 20 GHz
- 1 GHz DANL: -168 dBm/Hz (typ.)
- 1 GHz phase noise: -100 dBc/Hz@10 kHz (typ.)
- Bandwidth: 100 MHz
- Light as 1.5 kg with 10.1-inch touchscreen
- 3 hours battery time (typ.)

High Frequency model PXN-400

- Superheterodyne architecture (SHR) design
- Frequency range from 9 kHz to 40 GHz
- I GHz DANL: -161 dBm/Hz (typ.)
- 1 GHz phase noise: -107 dBc/Hz@10 kHz (typ.)
- Bandwidth: 100 MHz
- 1.5 kg weight with 10.1-inch touchscreen

Parameter comparison

Model	PXE-90	PXE-200	PXN-400			
Frequency	9 kHz-9.5 GHz	9 kHz-20.0 GHz	9 kHz-40.0 GHz			
Architecture	SHR	SHR	SHR			
Preselect filters	14	19	11			
Analysis bandwidth	100	100	100			
Phase noise 1 GHz (10 kHz offset,dBc/Hz)	-101	-100	-107			
Touchscreen		10.1 inches				
Weight(kg)		1.5				
Battery life (typ.)	3 h					

Measurement application Up to 40 GHz

Spectrum/IQ data observation

HAROGIC File Mode System Preset Single Continu. •R	ec 🕨 Play 🚺 🔌	02:14:16	Return	Frequency
Spectrogram -100dBm -75dBm -50dBm	-25 <mark>dBm 0dBm X</mark>	22/0//0/		
3.75		Graph	Center 1GHz	Span
2.4e 1.2s		Trace	Start 9kHz	Amplitude
0.0s Start: 9kHz Center: 1GHz	Stop: 1.999991GHz	Peak Search	Stop 1.999991GHz	BW
Spectrum(dBm) RBW: 300KHZ VBW: 3MHZ SW1: 5.09MS Amp: A 0 -10 → M1R: 999.828571MHz -0.67dBm -20 -30	T1 MaxH	Marker	Step 10MHz	Sweep
-40 -50 -70 -70	T3 C&W		LO Optimize Auto	Detect
-00 There adopted a contract of the second s	GHz/s Stop: 1.999991GHz			Meas
Spec zoom(dBm) 0 -10 -20 -20 -20 -20 -20 -20 -20 -20 -20 -2	T1 MaxH	♦ U2 E200_R3		Trigger
-40 -50 -60 -70	T2 AVG 10 T3 C&W			Record
-80 -90 -90 Start: 800MHz Span: 400MHz Center: 1GHz	μορογιατικό Καραγικό τη μολογιατική ματρογιατική Stop: 1.2GHz	RFU 48°C 54min		Next

Channel power

Н	AROGIC	File	Mode	System	Preset	Single	Continu	I. ●Rec	▶ Play		Ø 1	02:04:03	Return	Frequency
	pectrum(dBm)	RBW: 5k	Ηz	VBW: 50	kHz	SWT: 22.3	98ms	Amp: Auto	On	De	tector: RMS	22/07/07		
-15					-19.33dB	m				T1	C&W	Graph	Auto Set	Span
-30 -45					(\mathbf{r}						Trace	Center 999.99435MHz	Amplitude
-60					$\gamma \gamma$	\square		$\gamma \wedge ($		$\land \land$	$\Delta \Delta ($	Peak Search	Meas BW 807.91kHz	BW
-75 -90												Marker	SpanPower	Sweep
-105 -120														Detect
-135														Meas
-150	tart: 997.5MHz	Span	: 5MHz	(Center: 1GH	Iz	Speed: 2	23.235MH	z/s	Stop:	1.0025GHz	& U2		Trigger
Ch	annelPower Center			Meas BW		Chann	elPower		Power [Density		E200_R3		
	999.99435MHz			807.91kHz		-19	9.33dBm		-78.40d	Bm/Hz				Record
												3MB/S CPU 40°C 64min		Next

HA	ROGIC	File Mod RBW: 5kHz	e System VBW: 50kł	Preset	Single	Continu 641ms A	. • Rec	▶ Play	Dete	ector: RMS	02:02:41 22/07/07	Return	Frequency
-15				-20.3	7dBm				T1 (C&W	Graph	Span 10MHz	Span
-30											Trace	Full Span	Amplitude
-60					- Interfer						Peak Search	Span 🔺	BW
-75		-58.66dBc					-5	9.57dBc			Marker	Span 🔻	Sweep
-105	al an	in the the second second second second	ALM PARTY		1	Mahalan		n <mark>aali</mark> huu ahka		<u>Allehalden a</u>		Last Span	Detect
-135													Meas
-150 Star ACPR	rt: 995MHz	Span: 10MH	z Ce	enter: 1GH:	Z	Speed: 4	64.239MHz	2/S	Stop:	: 1.005GHz	- ⊗ U2 E200_R3		Trigger
	Main Power -20.37dBm	997. 1.002	Adj Center .142857MHz 2857143GHz		A -79 -79	dj Power 9.03dBm 9.95dBm		Adj -58.(-59.)	Ratio 66dBc 57dBc				Record
											RFU 32°C 64min		Next

Adjacent channel power ratio (ACPR)

Phase noise

	C File	Mode 0Hz	System	Preset Si	ingle Cont	inu. ●Rec Amp: Auto (► Play C	کې PosPeak:	05:19:00 22/07/07	Return	Frequency
0 -15 -30 -45	0000287GHz	-0.09d	Bm				T1 4	WG 1	Graph	Auto Set	Span
-60 -75 -90 -105		. 1 1		\checkmark	<u> </u>				Trace	Start 100Hz	Amplitude
-120 -135 -150 Start: 987.5MH	z Spar	n: 25MHz	Cei	nter: 1GHz	Speed	d: 0.000Hz/s	Stop: 1	.0125GHz	Peak Search	Stop 10MHz	BW
PhaseNoise(dB	c/Hz)					Carrier: -	0.09dBm@1.0000	00287GHz eNoise	Marker	CarrierTrack On	Sweep
-70 -80 -90 -100			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	····			Orig	nal Trace		Carrier 1.000000287GHz	Detect
-110 -120 -130 -140										Smooth MovingAvrage	Meas
-150 100Hz PhaseNoise	1kHz		10kHz		100kHz		1MHz		- 🏷 U2 E200 R3	Smooth Start 10kHz	Trigger
	FreqOffset 100Hz 1kHz	PhaseNo -23.10dE -97.91dE	ise sc/Hz sc/Hz		FreqOffse 10MHz	t PhaseNoi: -137.41df	se 3c/Hz			Smooth 1%	Record
	10kHz 100kHz 1MHz	-104.22d -102.81d -122.52d	Bc/Hz Bc/Hz Bc/Hz						CPU 45°C Omin		Next

Occupied bandwidth (OBW)

HAROGI	C File Mod	e System Pre	eset Single Co	ntinu. •Rec	▶ Play 🔰 🕻	Ø	02:04:12	Return	Frequency
Spectrum(dBm)	RBW: 5kHz	VBW: 50kHz	SWT: 22.029m	s Amp: Auto O	n De	etector: RMS	22/0//0/		
-15					T	C&W	Graph	Auto Set	Span
-30							Trace	Method XdB %	Amplitude
-60				$\bigcirc \bigcirc $			Peak Search	XdB -3dB	BW
-75			-30B ()			\bigwedge	Marker		Sweep
-105									Detect
-135									Meas
-150 Start: 997.5MHz OBW	Span: 5MHz	Center:	1GHz Sp	eed: 226.974MHz/s	s Stop	: 1.0025GHz	♦ U2 E200 B3		Trigger
dB -3.0d	c B 999.	Start 918396MHz	S 1.0000730640	top 3Hz	Meas BV 154.669kH	V z	430013 0.55.30 2.55.06		Record
							RFU 35°C 64min		Next

AM/FM demodulation

H,		File M	lode S	system	Preset	Sing	le Conti	nu. ●Rec	► Play	Ċ	Ø	15:30:35 23/05/13	Return	Frequency
0 -20 -40 -60 -80	pectrum-P	IQvT-P			FM Dem	iod-P						Graph	Channel PHYSICAL	BW
-100 0s 0	100µs ectrum-P(dBm)	200µs	300µs TraceDo	400µs etector: Pos	50 sPeak	0µs FM D 2.2	600µs Demod-P(M	700µs)	800µs	900µs Center	r: 1GHz		Type FM	Amplitude
-10 -20 -30				T1 C&W		1.8 1.3 0.9							TimeStart 430.508us	DDC
-40 -50 -60						0.4	d di silan kana Sirangi silangi	da orașt relați de mate Mana a carateri de arațeri	nation bi te todo e de Sprime geografications		alatik dan Manjaranan		TimeLength 100us	IQvT
-90 -90 -100_		il in the set				-0.9 -1.3 -1.8 -2.2							AudioFilter	FFT
	art: 938.56MHz (vT-P(mV)	Center: 1GHz Sa	St mpleRate	op: 1.0614 e: 122.88MI	4GHz Hz	Start Center:	Time: 430. 1GHz	5µs	s	Ref.Level	530.5µs : 0dBm			PvT
3 2 1		Λ		Ϊ	λ		χ		Μ	Channe	<u>-q</u>	& U3 E200_R3		Demod
0 -1 -2		$ \rangle$		MT		\mathbb{V}				V	1			Display
-3 -4 -5 St	art: 198.9µs	¥.		nd market		V				Stop: 2	298.9µs	CPU 56°C 46min		Next

Pulse signal analysis



Real-time spectrum analysis

HAROGIC File Mo	ode System Prese	t Single Continu.	●Rec ▶Play 【	ø	02:19:18 22/07/07	Return	Frequency
80s	3dBm 75dBm	-50dBm	-25dBm	OdBm X	Graph	RBWMode Auto	Span
6.05						RBW 118.56kHz	Amplitude
4.05						VBWMode VBW = 10*RBW	BW
						VBW 1.186MHz	Sweep
Density	Cente RBW: 1	er: 1GHz 18.56kHz	Stop:	1.04992GHz POI: 16.67us			Detect
0 M1R: 999.969982MHz · -10 → M1R: 999.969982MHz ·	-1.17dBm		T	C&W			Trigger
-40					& U2 E200 R3		Record
-60							Play Back
-90 -100 Start: 950.08MHz	AnalysisBW: 99.84MHz	Center: 1GHz	Stop:	1.04992GHz	21MB/S RFU 52°C 49min		System

SA series overview



AE-200

Most popular model SAM-60 M3

SAM-60 M3 covers frequency range from 9 kHz to 6.3 GHz and bandwidth up to 100 MHz, which is the most popular model among SA series. Under unique RF design, its core module is only 168 grams and volume as small as a mobile phone, easy to be deployed on many types of RF embedded system.

Classical model SAE-200

SAE-200 covers frequency range from 9 kHz to 20 GHz, bandwidth up to 100 MHz with a weight of only 195 grams. It is equipped with the built-in FPGA, which highly decreases the requirement of CPU for PC. The sweep speed of SAE-200 is over 1.0 THz/s (RBW≥300 kHz) to spot burst signals.

Cost effective model SAN-400

SAN-400 covers frequency range from 9 kHz to 40 GHz, bandwidth up to 100 MHz with a weight of only 185 grams. The release of SAN-400 breaks the inherent impression of RF engineer that high frequency means hugely expensive. 40 GHz with all free software SAStudio4 and open API now costs you less than 10,000 USD, extending your RF boundaries.



Parameter comparison

Model	SAM-60 M3	SAM-80	SAE-90	SAE-200	SAN-400
Frequency	9 kHz-6.3 GHz	9 kHz-8.5 GHz	9 kHz-9.5 GHz	9 kHz-20.0 GHz	9 kHz-40.0 GHz
Sweep speed (GHz/s)	300	300	1200	1200	400
Architecture	Low IF	Low IF	SHR	SHR	SHR
Preselect filters	8	8	14	19	11
Analysis bandwidth	100	100	100	100	100
Phase noise 1 GHz (10 kHz dBc/Hz), dBc/Hz)	-114	-120	-101	-100	-107
Weight (g)	168	168	188	195	185
Size (mm)	142×54×16	142×54×16	118×60×15	118×60×15	125×60×17

SAM-60 M3 USB Real-time Spectrum Analyzer



- Frequency range: 9 kHz~6.3 GHz
- 100 kHz-6.3 GHz analog signal generator (option)
- 100 MHz analysis bandwidth, 300 GHz/sec spectrum sweep speed
- FPGA based digital signal processing
- 1 GHz Phase noise: -114 dBc/Hz @10 kHz
- 1 GHz DANL: -168 dBm/Hz
- Weight: 168 grams (core module), size:142 mm×54 mm×16 mm
- power consumption: 8-11 W
- Highly compatible API interfaces and SAStudio4 GUI
- Remote master ARM and x86 processors are supported
- Linux and Windows operating systems are supported
- Operating temperatures range from -20 °C/-40 °C to 65 °C (option)

SAM-60 M3

SAM-60 M3 Technical Specit	fications * (typica	value)					
Indicator test basis Hardwa	are Version: R5	API: 0.55.12	FPGA: 0.5	5.2 MCU	: 0.55.9	SAS4:	1.55.57
Frequency							
Frequency Range	9 kHz~6.3 GHz						
Initial Frequency Accuracy	<1 ppm, suppo	rting program	n manual coi	rrection			
Reference Clock	Internal or ex ppm/year, tem ppm	ternal, prog perature dr	ram-contrc ift<1 ppm;	olled switching built-in OCXO	. Internal (option),	10 MHz T temperatu	CXO aging<1 ure drift<0.15
Spectrum Purity							
SSB Phase Noise				dBc/Hz			
Carrier Frequency	500 MF	l z	1 GHz	3	GHz		6 GHz
1 kHz	-112.8	5	-107.5		99.3 00.4		-93.1
10 kHz	-120.0)	-114.2		01.0		- 101.2
IUU KHZ 1 M니~	-120.1	1	-112.5	-1	101.8 27.7		-77.3 -122 7
Residual Response	Frequency	l Zange	- 132.8 RI -0 40-	ן – – יס נ	-20 dBm	- ית	= 122.1 =-50 dBm
Spurious rejection on				K.L.=-	20 UDITI 104	K.L. [:]	50 ubiii -132
dBm, RBW =1 kHz,	100KF1Z~10 100MH7~4	3GH7	_70 _QN		103		-111
Positive peak delector Residual Response	100kHz~10	0MH7			-97		-120
Spurious rejection off	100MHz~6	3GHz	-90		103		-111
Image Frequency Suppressio	n >90 dBc (spuric	ous rejection o	on, typical va	alue), >35 dBc (s	spurious rej	ection off, 1	typical value)
LO Related Spurious	<-65 dBc (Offse	et Center Fred	quency +/- (I	√/M)*125MHz, №	V/M = 1,2,3,	,4,5)	
Signal Processing							
Analysis Bandwidth	Maximum 100 I	MHz, Decimat	e Factor:1				
IQ Data	125MSPS, Deci	mate factor: 1	,2,4,8,16,32	,64128,256,512.	1024,2048.4	4096 suppo	orted (FPGA)
	The built-in m	emory depth	is 128 Mb	/tes			
Storage Depth	Supports con- less than the	tinuous and bus bandwic	uninterrup hth, and the	oted storage w e storage dept	vhen the c h is only li	lata gene mited by	ration rate is the hard disk
External Trigger Response	Maximum respo	onse frequenc	cy 500 times	/sec			
Analog IF Output	Not available						
Amplitude							
Maximum safe input power	26 dBm	30 1	MHz~6.3 GH	z and the prean	nplifier off (R.L. ≥ 0 dB	m)
(CW)	10 dBm	100	kHz~30 M⊦	lz or preamplifie	er on (R.L. <	0 dBm)	
Maximum DC Voltage	±15 VDC						
Display Range	DANL~26 dBm						
Amplitude Accuracy	±1.5 dB						
IF in-band spectrum ripple	±1.75 dB (100 M	MHz analog IF	- bandwidth)			
Reference level (R.L.)	-50 dBm~23 dI	3m					
RF Preamplifiers	Converting ba as automatica	nds (frequen lly turn on or	cy ≥ 30MH: ^r forcibly tu	z) are equipped rn off	d with prea	mplifier th	at can be set
Signal generator (option)							
Frequency range	100 kHz~6.3 G	Hz, 10 Hz fo	or each ste	p			
Power range	-50 dBm~0 dE	3m, 0.25 dB f	or each ste	р			
VSWR	<2.0:1		30) MHz~6.3 GHz			
Non-harmonic spurs	<-50 dBc						
Harmonic wave	100 kHz~30 M	Hz 30 MHz~	-1.6 GHz	1.6 GHz~3 GHz	3 GHz~3.2	2 GHz 3 (GHz~6.3 GHz
Second harmonic	<-10 dBc	<-10	dBc	<-20 dBc	<-20 d	Bc	<-20 dBc
Third harmonic and above	<-10 dBc	<-10	dBc	<-20 dBc	<-20 d	Bc	<-20 dBc

SAE-200 USB Real-time Spectrum Analyzer



- Frequency range: 9 kHz~20 GHz
- 100 MHz analysis bandwidth, 1200 GHz/sec spectrum sweep speed
- FPGA based digital signal processing
- 1 GHz phase noise: -100 dBc/Hz @10 kHz
- 1GHz DANL: -165 dBm/Hz
- Weight:195 grams (core module), size: 118 mm×60 mm×15 mm
- power consumption: 10-14 W
- Highly compatible API interfaces and SAStudio4 GUI
- Remote master ARM and x86 processors are supported
- Linux and Windows operating systems are supported
- Operating temperatures range from -20 °C/-40 °C to 65 °C (option)

SAE-200

SAE-200 Technical S	pecifications * (typical value	e)						
Indicator test basis	Hardware Version: R3	API: 0.50.1	FPGA: 0.50.0	MCU: 0.50.2	SAS4: 1.50.40			
Frequency								
Frequency Range	9 kHz~20 GHz							
Initial Frequency Accuracy	<1 ppm, Supporting progra	am manual corr	ection					
Reference Clock	Internal or external, progr Internal TCXO aging<1 pp temperature drift<0.15 pp	am-controlled m/year, tempe m	switching rature drift<1 pp	om; Internal OCXO	(option),			
Spectrum Purity								
SSB Phase Noise			dBc/Hz					
Carrier Frequency	1 GHz	3 (θHz	10 GHz	19.9 GHz			
1 kHz	-91.2	-9	0.0	-86.1	-80.6			
10 kHz	-99.7	-10)0.9	-92.5	-90.6			
100 kHz	-101.1	-10)4.2	-94.4	-96.2			
1 MHz	-121.6	-12	23.4	-112.1	-111.5			
10 MHz	-134.4	-13	34.2	-131.9	-129.2			
	Frequency Range	R.L.=0) dBm	R.L.=-20 dBm	R.L.=-50 dBm			
Residual Response	9 kHz~1.0 GHz	< -	-90	< -100	< -120			
Spurious rejection off	1.0 GHz~3.0 GHz	< -	-80	< -100	< -120			
Positive Peak Detector	3.0 GHz~9.0 GHz	< -	-90	< -100	< -120			
	9.0 GHz~20 GHz	< -	-90	< -100	< -120			
Image Frequency	9 kHz~9 GHz	>90 dBc (sp	urious rejection o	off), >90 dBc (spurio	ous rejection on)			
Suppression	9 GHz~20 GHz	>60 dBc (sp	urious rejection o	off). >90 dBc (spurid	ous reiection on)			
IF rejection (R.L.=0 dB)	>90 dBc (spurious rejection on), >80 dBc (spurious rejection off)							
LO Related Spurious	<-65 dBc (Offset Center Fr	equency +/- (N	(M)*125MHz, N/M	1 = 1,2,3,4,5)				
Input Related Spurious	<-75 dBc (spurious rejectio	on on), <-50 dB	c (spurious reject	ion off)				
Linearity								
IIP3 (dBm)	1 GHz	3 (GHz	10 GHz	19.9 GHz			
R.L.= 20 dBm	45.5	47	7.3	43.6	35.3			
R.L.= 0 dBm	27.5	27	7.2	23.2	21.0			
R.L.= -20 dBm	4.7	7	.5	-8.9	-3.0			
Signal Processing								
Analysis Bandwidth	Maximum 100 MHz (IF ana	log BW set as 1) or 40 MHz (IF a	nalog BW set as 2)	, Decimate Factor:1			
IQ Data	122.88 MSPS, supporting 1 Decimate factor: 1,2,4,8,16	20 MSPS-125 N ,32,64, 128,256	1SPS program ad 512,1024,2048,4	justable, 1 Hz step 096 supported (FPC	GA)			
	The built-in memory dept	h is 128 MByte	S					
Storage Depth	Supports continuous and the bus bandwidth, and t	uninterrupted he storage dep	storage when th th is only limited	ne data generation d by the hard disk	rate is less than capacity			
External Trigger Response	Maximum response frequency 500 times/sec							
Analog IF Output	Supporting 307.2 MHz +/-5	50 MHz						
Amplitude								
Maximum safe input	23 dBm 3	0 MHz~20 GHz	and the preampl	ifier off (R.L. ≥ 0 dB	5m)			
power (CW)	10 dBm 1	00 kHz~30 MH:	z or preamplifier (on (R.L. <0 dBm)				
Maximum DC Voltage	±12 VDC							
Display Range	DANL~23 dBm							

SAN-400 USB Real-time Spectrum Analyzer



- Frequency range: 9 kHz~40 GHz
- 100 MHz analysis bandwidth, 400 GHz/sec spectrum sweep speed
- FPGA based digital signal processing
- 1 GHz phase noise: -107 dBc/Hz @10 kHz
- 1 GHz DANL: -161 dBm/Hz
- Weight: 188 grams (core module), size: 125 mm×60 mm×17 mm
- Power consumption: 10–14 W
- Highly compatible API interfaces and SAStudio4 GUI
- Remote master ARM and x86 processors are supported
- Linux and Windows operating systems are supported
- Operating temperatures range from -20 °C/-40 °C to 65 °C(option)
- Built-in OCXO (option), temperature drifting≤0.15 ppm
- USB 3.0/2.0 Type-C interface

SAN-400

SAN-400 Technical Specifications * (typical value)									
Indicator test basis Hardv	ware Version: R2	API: 0.55.30	FPGA: 0.55.8	MCU: 0.55.30	SAS4: 1.55.42				
Frequency									
Frequency Range	9 kHz~40 GHz								
Initial Frequency Accuracy	<1 ppm, Supp	orting program	manual correction						
Reference Clock	Internal or exte Internal TCXO temperature d	ernal, program aging<1 ppm/y rift<0.15 ppm	-controlle d switch vear, temperature d	ing Irift<1 ppm; Interna	al OCXO (option),				
Spectrum Purity									
SSB Phase Noise			dBc/Hz						
Carrier Frequency	1 GHz	3 GHz	10 GHz	20 GHz	40 GHz				
1 kHz	-99.0	-96.1	-91.4	-85.6	-78.4				
10 kHz	-107.5	-105.0	-99.5	-94.6	-85.7				
100 kHz	-107.7	-105.6	-99.6	-94.9	-85.1				
1 MHz	-122.7	-122.2	-115.7	-111.4	-100.8				
10MHz	-132.1	-131.3	-130.5	-126.6	-122.8				
			R.L.=0 dBm	R.L.=	-20 dBm				
Residual Response	Frequency Ran	ge Spurious rejection c	Spurious off rejection on	Spurious rejection off	Spurious rejection on				
Spurious rejection off	9 kHz~10 GH	z -72	-72	-93	-93				
dBm, RBW =1 kHz Positive Peak Detector	10 GHz~20 GH	lz -91	-94	-109	-113				
	20 GHz~30 GH	lz -85	-90	-104	-107				
	30 GHz~40 GH	lz -89	-92	-107	-110				
Image Frequency Suppression (Spurious rejection on)	ⁿ 90 MHz - 33 Gł	Hz, > 90 dBc; 3	33 GHz to 40 GHz, >	58 dBc.					
IF rejection (Spurious rejectio off)	n > 90 dBc, while	ie for 8.2 GHz~2	21.75 GHz, > 68 dB	С.					
IF rejection (Spurious rejectio on)	n > 90 dBc								
Local Oscillator Related Spurious	<-65 dBc (Offse	et Center Frequ	ency +/- (N/M)*125	MHz, N,M = 1,2,3,4,	5)				
Input Related Spurious (Spurious rejection on)	<-60 dBc; refer	to technical ch	aracteristics for deta	ails					
Signal Processing									
Analysis Bandwidth	Maximum 100 I	MHz							
IQ Data	122.88 MSPS, s 32,64,128,256,5	upporting 120 I 512,1024,2048,4	MSPS-125 MSPS pro 096 supported.	ogram adjustable, 1	Hz step 1,2,4,8,16,				
	The built-in m	emory depth is	128 Mbytes						
Storage Depth	Supports continuous and uninterrupted storage when the data generation rate is less than the bus bandwidth, and the storage depth is only limited by the hard disk capacity								
External Trigger Response	Maximum respo	onse frequency	500 times/sec						
Analog IF Output	Supporting 307	′.2 MHz +/-50 №	1Hz						
Amplitude									
Maximum safe input power	23 dBm		1 88	MHz~40 GHz					
(CW)	10 dBm		100	kHz~88 MHz					
Maximum DC Voltage	+/-12 VDC								
Display Range	DANL~23 dBn	n							

NX series overview



Most popular model NXM-60

- 9 kHz-6.3 GHz real-time spectrum analyzer
- Integrated 100 kHz-6.3 GHz analog signal generator (opt.)
- 100 MHz analysis bandwidth, 78 GHz/sec spectrum sweep speed
- 1000M/100M Ethernet interface
- Weight 660 grams, size 167 ×117 ×28 mm, power consumption: 14 W



Classical model NXE-200

- 9 kHz-20 GHz real-time spectrum analyzer
- SHR architecture, 19 segments pre-selected filter
- 100 MHz analysis bandwidth, 320.2 GHz/sec sweep speed
- Weight 660 grams, size 167×117×28 mm, power consumption: 13-16 W
- Highly compatible API interfaces and SAStudio4 GUI



Cost effective model NXN-400

- 9 kHz-40 GHz real-time spectrum analyzer
- 100 MHz analysis bandwidth, 400 GHz/sec sweep speed
- 40 GHz/10 GHz phase noise: -85/-100 dBc/Hz@10 kHz
- 40 GHz/10 GHz DANL = -147/-158 dBm/Hz
- Weight 660 grams, size 167×117×28 mm, power consumption: 18 W

Parameter comparison

Model	NXM-60	NXM-80	NXE-90	NXE-200	NXN-400
Frequency	9 kHz-6.3 GHz	9 kHz-8.5 GHz	9 kHz-9.5 GHz	9 kHz-20.0 GHz	9 kHz-40.0 GHz
Sweep speed (GHz/s)	78	163	330	330	300
Architecture	Low IF	Low IF	SHR	SHR	SHR
Preselest filters	8	8	14	19	11
Analysis bandwidth	100	100	100	100	100
Phase noise 1 GHz (10 kHz offset , dBc/Hz)	-114	-120	-101	-100	-107
Weight (g)	660				
Size (mm)	167×117×28				

HAROGIC

Distribution in the UK & Ireland



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