UXA X-Series Signal Analyzer, Multi-touch N9040B

2 Hz to 8.4, 13.6, 26.5, 44, or 50 GHz





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This data sheet is a summary of the specifications and conditions for the UXA signal analyzers. For the complete specifications guide, visit:

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Definitions and Conditions

Specifications describe the performance of parameters covered by the product warranty and apply to temperature ranges 0 to 55 °C, unless otherwise noted.

95th percentile values indicate the breadth of the population (approx. 2σ) of performance tolerances expected to be met in 95 percent of the cases with a 95 percent confidence, for any ambient temperature in the range of 20 to 30 °C. In addition to the statistical observations of a sample of instruments, these values include the effects of the uncertainties of external calibration references. These values are not warranted. These values are updated occasionally if a significant change in the statistically observed behavior of production instruments is observed.

Typical describes additional product performance information that is not covered by the product warranty. It is performance beyond specifications that 80 percent of the units exhibit with a 95 percent confidence level over the temperature range 20 to 30 °C. Typical performance does not include measurement uncertainty.

Nominal values indicate expected performance, or describe product performance that is useful in the application of the product, but is not covered by the product warranty.

The analyzer will meet its specifications when:

- The analyzer is within its calibration cycle.
- Under auto couple control, except that Auto Sweep Time Rules = Accy.
- For signal frequencies < 10 MHz, DC coupling applied.
- The analyzer has been stored at an ambient temperature within the allowed operating range for at least two hours before being turned on, if it had previously been stored at a temperature range inside the allowed storage range but outside the allowed operating range.
- The analyzer has been turned on at least 30 minutes with Auto Align set to Normal, or if Auto Align is set to Off or Partial, alignments must have been run recently enough to prevent an Alert message. If the Alert condition is changed from "Time and Temperature" to one of the disabled duration choices, the analyzer may fail to meet specifications without informing the user. If Auto Align is set to Light, performance is not warranted, and nominal performance will degrade to become a factor of 1.4 wider for any specification subject to alignment, such as amplitude tolerances.
- The term "mixer level" is used as a condition for many specifications in this document. This term is a conceptual quantity that is defined as follows: Mixer Level (dBm) = RF Input Power Level (dBm) - (Electronic + Mechanical) Attenuation (dBm)

For instruments with option H1G, all standard instrument specifications apply for 0 to 40 °C, except as noted in document N9040-90026. Maximum operating temperature range is 40 °C when using the 1 GHz IF path.

Frequency and Time Specifications

Frequency range	DC coupled	AC coupled		
Option 508	2 Hz to 8.4 GHz	10 MHz to 8.4 GHz		
Option 513	2 Hz to 13.6 GHz	10 MHz to 13.6 GHz		
Option 526	2 Hz to 26.5 GHz	10 MHz to 26.5 GHz		
Option 544	2 Hz to 44 GHz	NA		
Option 550	2 Hz to 50 GHz	NA		
Frequency band	LO multiple (N)	Frequency range		
0	1	2 Hz to 3.6 GHz		
1	1	3.5 to 8.4 GHz		
2	2	8.3 to 13.6 GHz		
3	2	13.5 to 17.1 GHz		
4	4	17 to 26.5 GHz		
5	4	26.4 to 34.5 GHz		
6	8	34.4 to 50 GHz		
Frequency reference				
Accuracy	± [(time since last adjustment x ag	ing rate) + temperature stability + calibration accuracy]		
Aging rate	± 3 x 10 ⁻⁸ / year			
Temperature stability Full temperature range	± 4.5 x 10 ⁻⁹			
Achievable initial calibration accuracy	± 3.1 x 10 ⁻⁸			
Example frequency reference accuracy 1 year after last adjustment	$= \pm (3 \times 10^{-8} + 4.5 \times 10^{-9} + 3.1 \times 10^{-8})$ = \pm 6.6 \times 10^{-8}			
Residual FM (Center frequency = 1 GHz 10 Hz RBW, 10 Hz VBW)	≤ (0.25 Hz x N) p-p in 20 ms nomir See band table above for N (LO mu			
Frequency readout accuracy (start, stop, c	enter, marker)			
± (marker frequency x frequency reference a	ccuracy + 0.10% x span + 5 % x RBW + 2 F	Hz + 0.5 x horizontal resolution ¹)		
Marker frequency counter				
Accuracy	± (marker frequency x frequency r	eference accuracy + 0.100 Hz)		
Delta counter accuracy	± (delta frequency x frequency refe	± (delta frequency x frequency reference accuracy + 0.141 Hz)		
Counter resolution	0.001 Hz			
Frequency span (FFT and swept mode)				
Range	0 Hz (zero span), 10 Hz to maximu	m frequency of instrument		
Resolution	2 Hz			
Accuracy Swept FFT	± (0.1% x span + horizontal resolut ± (0.1% x span + horizontal resolut			

^{1.} Horizontal resolution is span/(sweep points -1).

Frequency and Time Specifications (continued)

Sweep time and triggering		
Range	Span = 0 Hz Span ≥ 10 Hz	1 μs to 6000 s 1 ms to 4000 s
Accuracy	Span ≥ 10 Hz, swept Span ≥ 10 Hz, FFT	± 0.01% nominal ± 40% nominal
	Span = 0 Hz	± 0.01% nominal
Sweep trigger	Free run, line, video, external 1, external 2, RF bu	rst, periodic timer
Trigger Delay	Span = 0 Hz or FFT Span ≥ 10 Hz, swept Resolution	-150 to +500 ms 0 to 500 ms 0.1 μs
Time gating		·
Gate methods	Gated LO; gated video; gated FFT	
Gate length range (except method = FFT)	1 μs to 5.0 s	
Gate delay range	0 to 100.0 s	
Gate delay jitter	33.3 ns p-p nominal	
Sweep (trace) point range		
All spans	1 to 40,001	
Resolution bandwidth (RBW)		
Range (-3.01 dB bandwidth) Standard With Option B2X, B5X, or H1G and Option RBE	1 Hz to 3 MHz (10% steps), 4, 5, 6, 8 MHz 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 100, 133, 1 and zero span	50, 200, and 212 MHz, in Spectrum Analyzer mode
Bandwidth accuracy (power) RBW range	1 Hz to 100 kHz 110 kHz to 1.0 MHz (< 3.6 GHz CF) 1.1 to 2 MHz (< 3.6 GHz CF) 2.2 to 3 MHz (< 3.6 GHz CF) 4 to 8 MHz (< 3.6 GHz CF)	± 0.5% (± 0.022 dB) ± 1.0% (± 0.044 dB) ± 0.07 dB nominal 0 to -0.2 dB nominal 0 to -0.4 dB nominal
Bandwidth accuracy (-3.01 dB)		
RBW range	1 Hz to 1.3 MHz	± 2% nominal
Selectivity (-60 dB/-3 dB)		4.1:1 nominal
EMI bandwidth (CISPR compliant)	200 Hz, 9 kHz, 120 kHz, 1 MHz	(Option EMC required)
EMI bandwidth (MIL STD 461E compliant)	10 Hz, 100 Hz, 1 kHz, 10 kHz, 100 kHz, 1 MHz	(Option EMC required)
Analysis bandwidth ¹		
	Option B25 (standard)	25 MHz
Maximum bandwidth	Option B23 (standard) Option B2X Option B5X Option H1G	40 MHz 255 MHz 510 MHz 1 GHz
Maximum bandwidth Video bandwidth (VBW)	Option B40 Option B2X Option B5X	40 MHz 255 MHz 510 MHz
	Option B40 Option B2X Option B5X	40 MHz 255 MHz 510 MHz 1 GHz

^{1.} Analysis bandwidth is the instantaneous bandwidth available around a center frequency over which the input signal can be digitized for further analysis or processing in the time, frequency, or modulation domain.

Amplitude Accuracy and Range Specifications

Amplitude range				
Measurement range	Displayed average noise level (DANL) to +30 dBm (for preamp Off) DANL to +24 dBm (for frequency opts ≤ 526 with preamp On) DANL to +20 dBm (for frequency opts > 526 with preamp On)			
Input mechanical attenuator range (2 Hz to 50 GHz)	·			
Electronic attenuator (Option EA3)				
Frequency range	2 Hz to 3.6 GHz	2 Hz to 3 6 GHz		
Attenuation range Electronic attenuator range Full attenuation range (mechanical + electronic)	0 to 24 dB, 1 dB steps 0 to 94 dB, 1 dB steps			
Maximum safe input level				
Average total power (with and without preamp)	+30 dBm (1 W)			
Peak pulse power (< 10 μs pulse width, < 1% duty cycle, and input attenuation ≥ 30 dB)	+50 dBm (100 W)			
DC volts DC coupled AC coupled	± 0.2 Vdc ± 100 Vdc (For frequency (Option 508, 513, or 526)		
Display range				
Log scale	0.1 to 1 dB/division in 0.1 dB steps 1 to 20 dB/division in 1 dB steps (10 display divisions)			
Linear scale	10 divisions			
Scale units	dBm, dBmV, dBμV, dBmA,	dBμA, V, W, A		
Frequency response		Specifications	95th percentile (≈ 2σ)	
(10 dB input attenuation, 20 to 30 °C, preselector ce	entering applied above 3.6 G	Hz)		
RF/MW	3 Hz to 10 MHz	± 0.46 dB		
(Option 508, 513, 526)	10 to 50 MHz	± 0.35 dB	± 0.19 dB	
	50 MHz to 3.6 GHz	± 0.35 dB	± 0.14 dB	
	3.5 to 5.2 GHz	± 1.5 dB	± 0.50 dB	
	5.2 to 8.4 GHz	± 1.5 dB	± 0.42 dB	
	8.3 to 13.6 GHz	± 2.0 dB	± 0.51 dB	
	13.5 to 17.1 GHz	± 2.0 dB	± 0.57 dB	
			0.05 ID	
	17.0 GHz to 22 GHz	± 2.0 dB	± 0.65 dB	
	17.0 GHz to 22 GHz 22.0 to 26.5 GHz	± 2.0 dB ± 2.5 dB	± 0.65 dB ± 0.87 dB	
mmW	22.0 to 26.5 GHz	± 2.5 dB		
mmW (Option 544, 550)		± 2.5 dB ± 0.46 dB	± 0.87 dB	
mmW (Option 544, 550)	22.0 to 26.5 GHz 3 Hz to 20 MHz 20 to 50 MHz	± 2.5 dB ± 0.46 dB ± 0.35 dB	± 0.87 dB ± 0.20 dB	
	22.0 to 26.5 GHz 3 Hz to 20 MHz 20 to 50 MHz 50 MHz to 3.6 GHz	± 2.5 dB ± 0.46 dB ± 0.35 dB ± 0.35 dB	± 0.87 dB ± 0.20 dB ± 0.16 dB	
	22.0 to 26.5 GHz 3 Hz to 20 MHz 20 to 50 MHz 50 MHz to 3.6 GHz 3.5 to 5.2 GHz	± 2.5 dB ± 0.46 dB ± 0.35 dB ± 0.35 dB ± 1.7 dB	± 0.87 dB ± 0.20 dB ± 0.16 dB ± 0.69 dB	
	22.0 to 26.5 GHz 3 Hz to 20 MHz 20 to 50 MHz 50 MHz to 3.6 GHz 3.5 to 5.2 GHz 5.2 to 8.4 GHz	± 2.5 dB ± 0.46 dB ± 0.35 dB ± 0.35 dB ± 1.7 dB ± 1.5 dB	± 0.87 dB ± 0.20 dB ± 0.16 dB ± 0.69 dB ± 0.42 dB	
	22.0 to 26.5 GHz 3 Hz to 20 MHz 20 to 50 MHz 50 MHz to 3.6 GHz 3.5 to 5.2 GHz 5.2 to 8.4 GHz 5.2 to 8.4 GHz	± 2.5 dB ± 0.46 dB ± 0.35 dB ± 0.35 dB ± 1.7 dB ± 1.5 dB ± 1.5 dB	± 0.87 dB ± 0.20 dB ± 0.16 dB ± 0.69 dB ± 0.42 dB ± 0.42 dB	
	22.0 to 26.5 GHz 3 Hz to 20 MHz 20 to 50 MHz 50 MHz to 3.6 GHz 3.5 to 5.2 GHz 5.2 to 8.4 GHz 5.2 to 8.4 GHz 8.3 to 13.6 GHz	± 2.5 dB ± 0.46 dB ± 0.35 dB ± 0.35 dB ± 1.7 dB ± 1.5 dB ± 1.5 dB ± 2.0 dB	± 0.87 dB ± 0.20 dB ± 0.16 dB ± 0.69 dB ± 0.42 dB ± 0.42 dB ± 0.39 dB	
	22.0 to 26.5 GHz 3 Hz to 20 MHz 20 to 50 MHz 50 MHz to 3.6 GHz 3.5 to 5.2 GHz 5.2 to 8.4 GHz 5.2 to 8.4 GHz 8.3 to 13.6 GHz 13.5 to 17.1 GHz	± 2.5 dB ± 0.46 dB ± 0.35 dB ± 0.35 dB ± 1.7 dB ± 1.5 dB ± 1.5 dB ± 2.0 dB ± 2.0 dB	± 0.87 dB ± 0.20 dB ± 0.16 dB ± 0.69 dB ± 0.42 dB ± 0.42 dB ± 0.39 dB ± 0.54 dB	
	22.0 to 26.5 GHz 3 Hz to 20 MHz 20 to 50 MHz 50 MHz to 3.6 GHz 3.5 to 5.2 GHz 5.2 to 8.4 GHz 5.2 to 8.4 GHz 8.3 to 13.6 GHz 13.5 to 17.1 GHz 17.0 GHz to 22 GHz	± 2.5 dB ± 0.46 dB ± 0.35 dB ± 0.35 dB ± 1.7 dB ± 1.5 dB ± 1.5 dB ± 2.0 dB ± 2.0 dB ± 2.0 dB	± 0.87 dB ± 0.20 dB ± 0.16 dB ± 0.69 dB ± 0.42 dB ± 0.42 dB ± 0.39 dB ± 0.54 dB ± 0.62 dB	
	22.0 to 26.5 GHz 3 Hz to 20 MHz 20 to 50 MHz 50 MHz to 3.6 GHz 3.5 to 5.2 GHz 5.2 to 8.4 GHz 5.2 to 8.4 GHz 8.3 to 13.6 GHz 13.5 to 17.1 GHz	± 2.5 dB ± 0.46 dB ± 0.35 dB ± 0.35 dB ± 1.7 dB ± 1.5 dB ± 1.5 dB ± 2.0 dB ± 2.0 dB	± 0.87 dB ± 0.20 dB ± 0.16 dB ± 0.69 dB ± 0.42 dB ± 0.42 dB ± 0.39 dB ± 0.54 dB	

Amplitude Accuracy and Range Specifications (continued)

Frequency response		Specifications	95th percentile ($\approx 2\sigma$)
Preamp on (0 dB attenuation)			
RF/MW	9 kHz to 1 MHz		± 0.38 dB
(Option P08, P13, P26)	1 to 50 MHz	± 0.68 dB	± 0.32 dB
	50 MHz to 3.6 GHz	± 0.55 dB	± 0.28 dB
	3.5 to 8.4 GHz	± 2.0 dB	± 0.64 dB
	8.3 to 13.6 GHz	± 2.3 dB	± 0.69 dB
	13.5 to 17.1 GHz	± 2.5 dB	± 0.84 dB
	17.0 to 22.0 GHz	± 3.0 dB	± 1.13 dB
	22.0 to 26.5 GHz	± 3.5 dB	± 1.48 dB
mmW	9 kHz to 1 MHz		± 0.45 dB
Option P44, P50)	1 to 50 MHz	± 0.68 dB	± 0.27 dB
	50 MHz to 3.6 GHz	± 0.60 dB	± 0.29 dB
	3.5 to 5.2 GHz	± 2.0 dB	± 0.75 dB
	5.2 to 8.4 GHz	± 2.0 dB	± 0.52 dB
	8.3 to 13.6 GHz	± 2.3 dB	± 0.61 dB
	13.5 to 17.1 GHz	± 2.5 dB	± 0.61 dB
	17.0 to 22.0 GHz	± 3.0 dB	± 0.73 dB
	22.0 to 26.5 GHz	± 3.5 dB	± 0.63 dB
	26.4 to 34.5 GHz	± 3.0 dB	± 1.11 dB
	34.4 to 50 GHz	± 4.1 dB	± 1.47 dB
Input attenuation switching uncertainty		Specifications	Supplemental information
Relative to 10 dB and preamp off		·	
At 50 MHz	attenuation 12 to 40 dB	± 0.14 dB	± 0.04 dB typical
(reference frequency)	attenuation 2 to 8 dB	± 0.18 dB	± 0.06 dB typical
(attenuation 0 dB		± 0.05 dB nominal
Attenuation > 2 dB			
3 Hz to 3.6 GHz			± 0.3 dB nominal
3.5 to 8.4 GHz			± 0.5 dB nominal
8.3 to 13.6 GHz			± 0.7 dB nominal
13.5 to 26.5 GHz			± 0.7 dB nominal
26.4 to 50 GHz			± 1.0 dB nominal
Total absolute amplitude accuracy			Specifications
(10 dB attenuation, 20 to 30°C, 1 Hz ≤ RB\	N < 1 MHz input cianal 10 to 50	dPm all cattings auto, coupled ever	•
level, any scale, σ = nominal standard dev		o abiii, ali settiiigs auto-coupled excep	or Auto Swp Tille – Accy, ally Telefelice
-		At 50 MHz	± 0.24 dB
		At all frequencies	± (0.24 dB + frequency response)
		0.01 to 3.6 GHz	\pm 0.16 dB (95th Percentile approx. 2 σ
Preamp on	At all frequencies	± (0.36 dB + frequency response)	
(Option P08, P13, P26, P44, P50)			
Input voltage standing wave ratio (VSWF	?)	95th	percentile
(10 dB input attenuation)		Freq Opt 508, 513, 526	Freq Opt 544, 550
•	50 MHz	1.07 nominal	1.025 nominal
	10 MHz to 3.6 GHz	1.101	1.116
	3.5 to 8.4 GHz	1.278	1.144
	8.3 to 13.6 GHz	1.341	1.158
	13.5 to 17.1 GHz	1.58	1.258

Amplitude Accuracy and Range Specifications (continued)

Input voltage standing wave ratio (VSWR)		95th percentile		
		Freq Opt 508, 513, 526	Freq Opt 544, 550	
Preamp on	10 MHz to 3.6 GHz	1.56	1.40 nominal	
(Option P08, P13, P26, P44, or P50)	3.5 to 8.4 GHz	1.47	1.53	
(0 dB input attenuation)	8.3 to 13.6 GHz	1.57	1.389	
	13.5 to 17.1 GHz	1.72	1.316	
	17.0 to 26.5 GHz	1.70	1.337	
	26.4 to 34.5 GHz	NA	1.42	
Doodution handwidth awitching uncertainty (act	34.4 to 50 GHz	NA	1.62	
Resolution bandwidth switching uncertainty (ref				
1 Hz to 1.5 MHz RBW 1.6 MHz to 2.7 MHz RBW	± 0.03 dB ± 0.05 dB			
3 MHz RBW	± 0.05 dB ± 0.10 dB			
4, 5, 6, 8 MHz RBW	± 0.30 dB			
Reference level	± 0.30 db			
Range				
Log scale	-170 to +30 dBm in 0.01 d	B stone		
Linear scale	707 pV to 7.07 V with 0.119	•		
Accuracy	0 dB ¹	(0.01 ab) resolution		
Display scale switching uncertainty	0 02			
Switching between linear and log	0 dB ¹			
Log scale/div switching	0 dB ¹			
Display scale fidelity				
Between -10 dBm and -18 dBm input mixer level	± 0.10 dB total	± 0.04 dB typical		
Below –18 dBm input mixer level	± 0.07 dB	± 0.02 dB typical		
Trace detectors				
Standard	Normal, peak, sample, neg	ative peak, log power average, RMS avera	ge, and voltage average	
With Option EMC	Add quasi-peak to above			
Preamplifier				
Frequency range ²	Option P08	9 kHz to 8.4 GHz		
	Option P13	9 kHz to 13.6 GHz		
	Option P26	9 kHz to 26.5 GHz		
	Option P44	9 kHz to 44 GHz		
	Option P50	9 kHz to 50 GHz		
Gain	9 kHz to 3.6 GHz	+20 dB nominal		
	3.6 to 26.5 GHz	+35 dB nominal (for freq opts ≤ 52		
	3.6 to 50 GHz	+40 dB nominal (for freq opts > 52	26)	

Only affects the display, not the measurement, so it causes no additional error in measurement results from trace data or markers.
 Below 100 kHz, only 95th percentile (approx. 2s) value for frequency response is provide

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Dynamic Range Specifications

1 dB gain compression (tw		Maximum power at input mix	er
At 1 kHz RBW with 100 kHz			
Preamp Off	20 to 40 MHz	2 dBm nominal	
	40 MHz to 2 GHz	5 dBm nominal	
	2 to 26.5 GHz	10 dBm nominal	
	26.5 to 50 GHz	0 dBm nominal	
Preamp On	10 MHz to 3.6 GHz	-14 dBm nominal	
	3.6 to 26.5 GHz		
	Tone spacing 100 kHz to 20 MHz	-28 dBm nominal	
	Tone spacing > 70 MHz		
	Freq Opt ≤ 526	-10 dBm nominal	
	Freq Opt > 526	–20 dBm nominal	
	26.5 to 50 GHz	-30 dBm nominal	
Displayed average noise le	evel (DANL) ¹	Specifications	Typical
Input terminated, sample o	or average detector, averaging type = Log, 0 dB in		1 Hz RBW, 20 to 30 °C)
RF/MW (Option 508, 513,	526)	LNP Off/LNP On ²	LNP Off/LNP On ²
Preamp Off	3 to 10 Hz		-100 dBm/NA nominal
	10 to 100 Hz		-125 dBm/NA nominal
	100 Hz to 1 kHz		–130 dBm/NA nominal
	1 to 9 kHz		-137 dBm/NA nominal
	9 to 100 kHz	–141 dBm/NA	-146 dBm/NA typical
	100 kHz to1 MHz	–150 dBm/NA	–155 dBm/NA typical
	1 to 10 MHz	-155 dBm/NA	-157 dBm/NA typical
	10 MHz to 1.2 GHz	–155 dBm/NA	-156 dBm/NA typical
	1.2 to 2.1 GHz	-153 dBm/NA	–155 dBm/NA typical
	2.1 to 3.0 GHz	-152 dBm/NA	-153 dBm/NA typical
	3.0 to 3.6 GHz	-151 dBm/NA	-152 dBm/NA typical
	3.5 to 4.2 GHz	-149 dBm/-154 dBm	-152 dBm/-155 dBm typical
	4.2 to 8.4 GHz	-150 dBm/-155 dBm	-152 dBm/-156 dBm typical
	8.3 to 13.6 GHz	-149 dBm/-155 dBm	-151 dBm/-156 dBm typical
	13.5 to 16.9 GHz	-145 dBm/-152 dBm	-147 dBm/-155 dBm typical
	16.9 to 20.0 GHz	-143 dBm/-151 dBm	-146 dBm/-154 dBm typical
	20.0 to 26.5 GHz	-136 dBm/-148 dBm	-139 dBm/-151 dBm typical
Preamp On ³	100 to 200 kHz	-152 dBm	–159 dBm
	200 to 500 kHz	–155 dBm	–161 dBm
	0.5 to 1 MHz	–159 dBm	–164 dBm
	1 to 10 MHz	–161 dBm	–166 dBm
	10 MHz to 2.1 GHz	–165 dBm	–166 dBm
	2.1 to 3.6 GHz	–163 dBm	–164 dBm
	3.5 to 8.4 GHz	–164 dBm	–166 dBm
	8.3 to 13.6 GHz	–163 dBm	-165 dBm
	13.5 to 16.9 GHz	–161 dBm	–163 dBm
	16.9 to 20.0 GHz	–159 dBm	–161 dBm
	20.0 to 26.5 GHz	–155 dBm	–158 dBm

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With Option NF2 (Noise Floor Extension) "Off".
 LNP (Low Noise Path) is standard for the UXA.
 At higher frequency bands (beyond 3.6 GHz), Preamp "On" supersedes "LNP enabled". LNP cannot operate simultaneously with preamp.

DANL with Noise Floor Extension Improvement (Option NF2)

DANL improvement exceeds 9 dB with 95% confidence in the average of all bands, paths (normal, preamp, low noise path and microwave preselector bypass), frequency options and signal path options (LNP and MPB).

DANL with Noise Floor Extension		95th percentile		
Frequency	Preamp Off	Preamp On	LNP On ²	
Band 0, f > 20 MHz	-163 dBm	-174 dBm	NA	
Band 1	-162 dBm	-174 dBm	-166 dBm	
Band 2	-162 dBm	-174 dBm	-167 dBm	
Band 3	-159 dBm	-172 dBm	-165 dBm	
Band 4	-148 dBm	-166 dBm	-162 dBm	

Displayed average noise level (DANL) ¹		Specifications	Typical	
(Input terminated, sample or average detector, averaging type = Log, 0 dB input attenuation, IF Gain = High, 1 Hz RBW, 20 to 30 °C)				
mmW (Option 544, 550)		LNP Off/LNP On ²	LNP Off/LNP On ²	
Preamp Off	3 to 10 Hz		-95 dBm/NA nominal	
	10 to 100 Hz		-114 dBm/NA nominal	
	100 Hz to 1 kHz		-128 dBm/NA nominal	
	1 to 9 kHz		-136 dBm/NA nominal	
	9 to 100 kHz	-141 dBm/NA	-144 dBm/NA typical	
	100 kHz to 1 MHz	-150 dBm/NA	-154 dBm/NA typical	
	1 to 10 MHz	-154 dBm/NA	-156 dBm/NA typical	
	10 MHz to 1.2 GHz	-153 dBm/NA	-155 dBm/NA typical	
	1.2 to 2.1 GHz	-151 dBm/NA	-153 dBm/NA typical	
	2.1 to 3.0 GHz	-150 dBm/NA	-152 dBm/NA typical	
	3.0 to 3.6 GHz	-149 dBm/NA	-151 dBm/NA typical	
	3.5 to 4.2 GHz	-145 dBm/-151 dBm	-148 dBm/-154 dBm typical	
	4.2 to 6.6 GHz	-144 dBm/-152 dBm	-148 dBm/-154 dBm typical	
	6.6 to 13.6 GHz	-147 dBm/-153 dBm	-149 dBm/-155 dBm typical	
	13.5 to 14 GHz	-144 dBm/-150 dBm	-148 dBm/-153 dBm typical	
	14 to 17 GHz	-145 dBm/-151 dBm	-148 dBm/-153 dBm typical	
	17 to 22.5 GHz	-141 dBm/-149 dBm	-146 dBm/-152 dBm typical	
	22.5 to 26.5 GHz	-139 dBm/-146 dBm	-143 dBm/-150 dBm typical	
	26.4 to 34 GHz	-138 dBm/-146 dBm	-143 dBm/-150 dBm typical	
	33.9 to 37 GHz	-134 dBm/-142 dBm	-140 dBm/-148 dBm typical	
	37 to 40 GHz	-132 dBm/-141 dBm	-139 dBm/-146 dBm typical	
	40 to 46 GHz	-130 dBm/-141 dBm	-137 dBm/-146 dBm typical	
	46 to 49 GHz	-130 dBm/-139 dBm	-137 dBm/-145 dBm typical	
	49 to 50 GHz	-128 dBm/-139 dBm	-135 dBm/-145 dBm typical	

^{1.} With Option NF2 (Noise Floor Extension) "Off".

^{2.} LNP (Low Noise Path) is standard for the UXA.

		Specifications	Typical
mmW (Option 544, 550)	LNP Off/LNP On ²	LNP Off/LNP On ²	LNP Off/LNP On ²
Preamp On ¹	100 to 200 kHz	–157 dBm	-159 dBm typical
•	200 to 500 kHz	–159 dBm	–161 dBm typical
	0.5 to 1 MHz	–162 dBm	–164 dBm typical
	1 to 2.1 GHz	–164 dBm	–165 dBm typical
	2.1 to 3.6 GHz	–162 dBm	–164 dBm typical
	3.5 to 13.6 GHz	–161 dBm	–162 dBm typical
	13.5 to 17.1 GHz	–161 dBm	–164 dBm typical
	17.0 to 20.0 GHz	–160 dBm	–163 dBm typical
	20.0 to 26.5 GHz	–158 dBm	-161 dBm typical
	26.4 to 30 GHz	–157 dBm	–160 dBm typical
	30 to 34 GHz	–155 dBm	–159 dBm typical
	33.9 to 37 GHz	–153 dBm	–158 dBm typical
	37 to 40 GHz	–152 dBm	–156 dBm typical
	40 to 46 GHz	–149 dBm	–155 dBm typical
	46 to 50 GHz	–146 dBm	–152 dBm typical
Displayed average noise level (DANL) with Noise Floor Extension (Option NF2) on		95th percentile	
DANL improvement	Preamp Off	Preamp On	LNP On
Band 0, f > 20 MHz	10 dB	9 dB	NA
Band 1	8 dB	9 dB	9 dB
Band 2	8 dB	8 dB	9 dB
Band 3	9 dB	8 dB	10 dB
Band 4	10 dB	8 dB	11 dB
Band 5	11 dB	8 dB	11 dB
Band 6	11 dB	7 dB	11 dB
DANL with Noise Floor Extension	Preamp Off	Preamp On	LNP On
Band 0, f > 20 MHz	-163 dBm	–174 dBm	NA
Band 1	–157 dBm	–173 dBm	–163 dBm
Band 2	–159 dBm	–174 dBm	–164 dBm
Band 3	–160 dBm	–174 dBm	–164 dBm
Band 4	–155 dBm	–171 dBm	–163 dBm
Band 5	–156 dBm	–169 dBm	–162 dBm
Band 6	–148 dBm	–161 dBm	–156 dBm

^{1.} At higher frequency bands (beyond 3.6 GHz), Preamp "On" supersedes "LNP enabled". LNP cannot operate simultaneously with preamp.

Residuals, images, and spurious respon	ises					
Residual responses (Input terminated and 0 dB attenuation)	200 kHz to 8.4 GHz Zero span or FFT or ot	her frequencies	–100 dBm –100 dBm nom	ninal		
Image responses	Tuned Freq (f)	Excitation Freq	Excitation Freq Response RF/MW (Opt 508, 513, 526)		mmW (Opt	544, 550)
(Mixer level at -10 dBm)	10 MHz to 26.5 GHz 10 MHz to 3.6 GHz 10 MHz to 3.6 GHz 3.5 to 13.6 GHz 13.5 to 17.1 GHz 17.0 to 22 GHz 22 to 26.5 GHz	f+45 MHz f+10,245 MHz f+645 MHz f+645 MHz f+645 MHz f+645 MHz f+645 MHz	-80 dBc - -80 dBc - -78 dBc - -74 dBc - -70 dBc -	-105 dBc typical -106 dBc typical -101 dBc typical -86 dBc typical -84 dBc typical -78 dBc typical -75 dBc typical	-80 dBc -80 dBc -80 dBc -80 dBc -80 dBc -80 dBc -70 dBc	-104 dBc typical -106 dBc typical -101 dBc typical -106 dBc typical -106 dBc typical -101 dBc typical -102 dBc typical
(Mixer level at -30 dBm)	26.5 to 50 GHz 26.5 to 34.5 GHz 34.4 to 42 GHz 42 to 50 GHz	f+45 MHz f+645 MHz f+645 MHz f+645 MHz			-70 dBc -60 dBc	-90 dBc nominal -98 dBc typical -84 dBc typical -75 dBc nominal
Other spurious responses	Mixer level	Response				
Carrier frequency ≤ 26.5 GHz						
First RF order (f ≥ 10 MHz from carrier) Higher RF order	–10 dBm	-80 dBc + 20log(l	N ²) Including IF fee	dthrough, LO harr	monic mixing	responses
(f ≥ 10 MHz from carrier)	-40 dBm	-80 dBc + 20log(N²) Including higher order mixer responses				
Carrier frequency > 26.5 GHz						
(f ≥ 10 MHz from carrier)	-30 dBm	-90 dBc nominal				
LO-related spurious responses (200 Hz ≤ f < 10 MHz from carrier) Line-related spurious responses	–10 dBm	-68 dBc ¹ + 20log		-73 dBc ¹ + 20log ((N²) (nominal)
Second harmonic distortion (SHI)	Source frequency	Mixer level	Distortion (LNP Off/LNP (•	SHI (LNP Off/L	
RF/MW (Opt 508, 513, 526)	10 MHz to 1.8 GHz 1.75 to 2.5 GHz 2.5 to 4 GHz 4 to 6.5 GHz 6.5 to 10 GHz 10 to 13.25 GHz	-15 dBm -15 dBm -15 dBm -15 dBm -15 dBm -15 dBm	-60 dBc/NA +45 dBm/NA -77 dBc/-95 dBc +62 dBm/+80 dBm -77 dBc/-101 dBc +62 dBm/+86 dBm -77 dBc/-105 dBc +62 dBm/+90 dBm -70 dBc/-105 dBc +55 dBm/+90 dBm -62 dBc/-105 dBc +47 dBm/+90 dBm		-80 dBm -86 dBm -90 dBm -90 dBm	
mmW (Opt 544, 550)	10 MHz to 1.8 GHz 1.75 to 2.5 GHz 2.5 to 4 GHz 4 to 6.5 GHz 6.5 to 10 GHz 10 to 13.25 GHz 13.25 to 25 GHz Source frequency	-15 dBm -15 dBm -15 dBm -15 dBm -15 dBm -15 dBm -15 dBm	-60 dBc/NA -72 dBc/-95 d -72 dBc/-99 d -77 dBc/-105 -70 dBc/-105 -62 dBc/-105 -65 dBc/-105	IBc dBc dBc dBc	+45 dBm/l +57 dBm/+ +57 dBm/+ +62 dBm/+ +55 dBm/+ +47 dBm/+ +50/+90 d	-80 dBm -84 dBm -90 dBm -90 dBm 90 dBm
Preamp On (Option P08, P13, P26, P44, P50)	10 MHz to 1.8 GHz 1.8 to 13.25 GHz 13.25 to 25 GHz	-45 dBm -50 dBm -50 dBm	-78 dBc nomir -60 dBc nomir -50 dBc nomir	nal	+33 dBm n +10 dBm n 0 dBm nom	ominal

Nominally -40 dBc under large magnetic (0.38 Gauss rms) or vibrational (0.21 g rms) environmental stimuli.
 N is the LO multiplication factor. Refer to page 3 for the N value verses frequency ranges.

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(two -16 dBm tones at input mixer w	vith tone separation > 5 times IF p	refilter bandwidth, 20 to 30 °C)	
RF/MW	10 to 300 MHz	+13.5 dBm	+16 dBm typical
(Opt 508, 513, 526)	300 to 600 MHz	+18 dBm	+21 dBm typical
	0.6 to 1.5 GHz	+20 dBm	+22 dBm typical
	1.5 to 3.6 GHz	+21 dBm	+23 dBm typical
	3.5 to 8.4 GHz	+19 dBm	+22 dBm typical
	8.3 to 13.6 GHz	+19 dBm	+23 dBm typical
	13.5 to 17.1 GHz	+18 dBm	+23 dBm typical
	17.0 to 26.5 GHz	+19 dBm	+24 dBm typical
mmW (Opt 544, 550)	10 to 300 MHz	+13.5 dBm	+16 dBm typical
	300 to 600 MHz	+18 dBm	+21 dBm typical
	0.6 to 1.5 GHz	+20 dBm	+22 dBm typical
	1.5 to 3.6 GHz	+21 dBm	+23 dBm typical
	3.5 to 13.6 GHz	+16 dBm	+23 dBm typical
	13.5 to 17.1 GHz	+13 dBm	+17 dBm typical
	17.0 to 26.5 GHz	+13 dBm	+20 dBm typical
	26.5 to 50 GHz		+13 dBm nominal
Preamp On	Tones at preamp input		
(Option P08, P13, P26, P44, P50)	(two -45 dBm)	10 to 500 MHz	+4 dBm nominal
	(two -45 dBm)	500 MHz to 3.6 GHz	+4.5 dBm nominal
	(two -50 dBm)	3.6 to 26.5 GHz	-15 dBm nominal

Phase noise	Offset	Specifications	Typical
Noise sidebands (20 to 30 °C, CF = 1 GHz)	10 Hz		-93 dBc/Hz typical ¹
	100 Hz	-107 dBc/Hz	–112 dBc/Hz typical
	1 kHz	-124 dBc/Hz	–127 dBc/Hz typical
	10 kHz	-134 dBc/Hz	–135 dBc/Hz typical
	100 kHz	-139 dBc/Hz	–141 dBc/Hz typical
	1 MHz	-145 dBc/Hz	–147 dBc/Hz typical
	10 MHz	-155 dBc/Hz	–157 dBc/Hz typical

^{1.} For wide reference loop bandwidth.

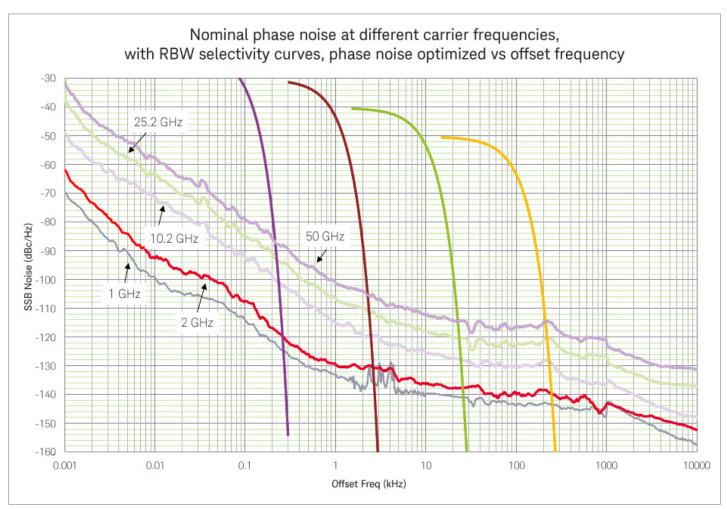


Figure 1. Nominal UXA phase noise at various center frequencies. 50 GHz curve is the predicted phase noise computed from the 25.2 GHz observation.

General Specifications

Temperature range

Operating 1 O to $55\,^{\circ}$ C Storage -40 to $+70\,^{\circ}$ C

Altitude

4,500 meters (approx. 15,000 feet)

EMC

Complies with the essential requirements of the European EMC Directive as well as current editions of the following standards (dates and editions are cited in the Declaration of Conformity):

- IEC/EN 61326-1
- CISPR 11 Group 1, Class A
- AS/NZS CISPR 11
- ICES/NMB-001

This ISM device complies with Canadian ICES-001.

Cet appareil ISM est conforme a la norme NMB-001 du Canada.

South Korean Class A EMC declaration

This equipment is Class A suitable for professional use and is for use in electromagnetic environments outside of the home.

A 급 기기 (업무용 방송통신기자재)이 기 기는 업무용 (A 급) 전자파적합기기로서 판 매자 또는 사용자는 이 점을 주 의하시기 바라며, 가 정외의 지역에서 사용하는 것을 목적으 로 합니다.

Safety

Complies with the essential requirements of the European Low Voltage Directive as well as current editions of the following standards (dates and editions are cited in the Declaration of Conformity):

- IEC/EN 61010-1
- Canada: CSA C22.2 No. 61010-1
- ·USA: UL std no. 61010-1

Acoustic statement (European Machinery Directive)

Acoustic noise emission

LpA < 70 dB

Operator position

Normal operation mode per ISO 7779

Acoustic noise - more information

Values given are per ISO 7779 standard in the "Operator Sitting" position

٨		
AM	bient	temperature

< 35 °C Nominally under 55 dBA Sound Pressure. 55 dBA is generally considered suitable for use in quiet office environment
≥ 35 °C Nominally under 65 dBA Sound Pressure. 65 dBA is generally considered suitable for use in noisy office environment

Environmental stress

Samples of this product have been type tested in accordance with the Keysight Environmental Test Manual and verified to be robust against the environmental stresses of storage, transportation, and end-use; those stresses include, but are not limited to, temperature, humidity, shock, vibration, altitude, and power line conditions; test methods are aligned with IEC 60068-2 and levels are similar to MILPRF-28800F Class 3.

Power requirements

Voltage and frequency	100/120 V, 50/60/400 Hz 220/240 V, 50/60 Hz	The instruments can operate with mains supply voltage fluctuations up to ± 10% of the nominal voltage
Power consumption	050 W/W :)	

On 850 W (Maximum) Standby 25 W

1. Operating temperature range when option H1G is installed is 0 to 40 °C.

General Specifications (continued)

Display	
Resolution Size	1280 x 800 357 mm (14.1 in.) diagonal (nominal) capacitive multi-touch screen
Data storage	
Internal	Removable solid state drive (≥ 80 GB) and secure digital (SD) memory device
External	Supports USB 3.0/2.0 compatible memory devices
Weight (Basic configuration)	
Net Shipping	30.9 kg (68 lbs) nominal 39.5 kg (87 lbs) nominal
Dimensions	
Height Width Length	280 mm (11 in) 459 mm (18 in) 500 mm (19.8 in)
Calibration cycle	
The recommended calibration cycle is	one year. Calibration services are available through Keysight service centers

Inputs and Outputs

Front panel	
RF input connector Standard (for Opt 508, 513, 526) Standard (for Opt 544, 550) Option C35 (with Option 526 only)	Type-N female, 50 Ω nominal 2.4 mm male, 50 Ω nominal APC 3.5 mm male, 50 Ω nominal
Probe power Voltage/current	+15 Vdc, ± 7% at 150 mA max nominal -12.6 Vdc, ± 10% at 150 mA max nominal
USB ports Master (3 ports) Standard Connector Output current	Compatible with USB 2.0 USB Type-A female 0.5 A nominal
Headphone jack	Miniature stereo audio jack (3.5 mm, also known as "1/8 inch")
External mixing Connection port Connector Impedance Functions Mixer bias range IF center frequency ≤ 25 MHz IF path 40 MHz BW IF path 255 MHz BW IF path 510 MHz BW IF path LO output frequency range	SMA, female 50 Ω nominal Triplexed for mixer bias, IF input and LO output ± 10 mA in 10 uA step 322.5 MHz 250.0 MHz 750.0 MHz 877.1484375 MHz 3.75 to 14.1 GHz
Rear panel	
10 MHz out Connector Output amplitude Frequency	BNC female, 50 Ω nominal ≥ 0 dBm nominal 10 MHz + (10 MHz x frequency reference accuracy)
Ext Ref In Connector Input amplitude range Input frequency Frequency lock range	BNC female, 50 Ω nominal -5 to 10 dBm nominal 1 to 50 MHz nominal (selectable to 1 Hz resolution) ± 2 x 10 ⁻⁶ of specified external reference input frequency
Trigger 1 and 2 inputs Connector Impedance Trigger level range	BNC female > 10 kΩ nominal -5 to +5 V (TTL) factory preset
Trigger 1 and 2 outputs Connector Impedance Level	BNC female 50 Ω nominal 0 to 5 V (CMOS) nominal
Sync (reserved for future use) Connector	BNC female
Monitor output 1 Connector Format Resolution	VGA compatible, 15-pin mini D-SUB XGA (60 Hz vertical sync rates, non-interlaced) Analog RGB 1280 x 800
Monitor output 2 Connector Resolution	Mini DisplayPort 1280 x 800

Inputs and Outputs (continued)

Noise source drive +28 V (pulsed) Connector Output voltage	BNC female On 28.0 ± 0.1 V (60 mA maximum) Off < 1 V
SNS series noise source	For use with the Agilent/Keysight SNS Series noise sources
Digital bus Connector	MDR-80
Analog out Connector	BNC female
USB ports Master (3 ports) Standard Connector Output current Slave (1 port) Standard Connector	Two ports (stacked with each other) are compatible with USB 3.0; one (stacked with LAN port) with USB 2.0 USB Type-A female 0.5 A nominal Compatible with USB 3.0 USB Type-B female
GPIB interface Connector GPIB codes GPIB mode	IEEE-488 bus connector SH1, AH1, T6, SR1, RL1, PP0, DC1, C1, C2, C3, C28, DT1, L4, C0 Controller or device
LAN TCP/IP interface Standard Connector	1000Base-T RJ45 Ethertwist
IF output Connector Impedance	SMA female, shared by the second IF out (wideband, standard) and Opt CRP, and ALV 50 Ω nominal
2nd IF output Center frequency SA mode or I/Q analyzer with IF BW ≤ 25 MHz with Option B40 with Option B2X with Option B5X Conversion gain Bandwidth	322.5 MHz 250 MHz 750 MHz 877.1484375 MHz 1 dB nominal
Low band IF Path ≤ 40 MHz IF Path 255 MHz IF Path 510 MHz IF Path 1 GHz High band, with preselector bypassed	Up to 160 MHz nominal 255 MHz nominal 510 MHz nominal 1 GHz nominal Up to 800 MHz (nominal); expandable to 1200 MHz with corrections
IF2 output for 1 GHz analog IF Connector Impedance Center frequency	SMA female 50 Ω nominal 750 MHz
IF2 input for 1 GHz digital section Connector Impedance Center frequency	SMA female 50 Ω nominal 750 MHz
Trigger 3 input for 1 GHz digitizer Connector Impedance Trigger level range Trigger channel passband	BNC female 50 Ω, DC terminated ± 5 V range (minimum amplitude 0.5 V pk-pk) DC to 2 GHz nominal

Other Optional Outputs

Option ALV log video out

General port specifications		
Connector Impedance	SMA female	Shared with other options $50\;\Omega$ nominal
Fast log video output		
Output voltage Maximum Slope	Open-circuit voltages shown 1.6 V at -10 dBm nominal 25 ± 1 mV/dB nominal	
Log fidelity Range Accuracy within range	49 dB (nominal) with input frequency a ± 1.0 dB nominal	at 1 GHz
Rise time	15 ns nominal	
Fall time Bands 1-4 with Option MPB Other cases	40 ns nominal best case Depends on bandwidth	

Option CRP programmable IF output

General port specifications		
Connector Impedance	SMA female	Shared with other options 50Ω nominal
Programmable IF output		
Center frequency		
Range	10 to 75 MHz (user selectable)	
Resolution	0.5 MHz	
Conversion gain	-1 to +4 dB (nominal) plus RF frequency response	
Bandwidth		
Output at 70 MHz		
Low band or high band with preselector bypassed	100 MHz (nominal)	
Preselected band	Depends on RF center frequency	
Lower output frequencies	Subject to folding	
Residual output signals	≤ -88 dBm (nominal)	

Other Optional Outputs (continued)

Option YAV Y-axis video output

General port specifications		
Connector Impedance	BNC female	Shared with other options 50Ω nominal
Screen video		
Operating conditions		
Display scale types	Log or Lin	"Lin" is linear in voltage
Log scales	All (0.1 to 20 dB/div)	
Modes	Spectrum analyzer only	
Gating	Gating must be off	
Output scaling	0 to 1.0 V open circuit, representing bottom	to top of screen
Offset	± 1% of full scale nominal	
Gain accuracy	± 1% of output voltage nominal	
Log video (Log envelope) output		
Amplitude range (terminated with 50 Ω)		
Maximum	V nominal for -10 dBm at the mixer	
Scale factor	1 V per 192.66 dB	
Bandwidth	Set by RBW	
Operating conditions	Select Sweep Type = Swept	
Linear video output		
Amplitude range (terminated with 50 Ω)		
Maximum	1.0 V nominal for signal envelope at the refer	rence level
Minimum	0 V	
Scale factor	If carrier level is set to half the reference lev	el in volts, the scale factor is 200% of carrier level per volt.
	Regardless of the carrier level, the scale fac	tor is 100% of reference level per volt.
Bandwidth	Set by RBW	
Operating conditions	Select Sweep Type = Swept	

I/Q Analyzer

Frequency							
Frequency span							
Option B25 (stand	dard)		10 Hz to 2				
Option B40			10 Hz to 4				
Option B2X			10 Hz to 2				
Option B5X			10 Hz to 5				
Option H1G	Int. 7		10 Hz to 1	GHZ			
Resolution bandwid	oth (spectrum me	easurement)		 			
Range			100	to 0 MH=			
Overall Span = 1 MHz			100 mHz to 3				
Span = 10 kHz			1 Hz to 10	· ····=			
Span = 100 Hz			100 mHz	· ··· ·=			
Window shapes				Jniform, Hanning, Hammin	n Gaussian Blackn	nan Blackman	-Harris Kaiser
William Griapes				-B 70 dB, K-B 90 dB and K-		nan, Blackman	riarrio, raioor
Analysis bandwidth	(waveform meas	surement)					
Option B25 (stand	dard)		10 Hz to 2	25 MHz			
Option B40			10 Hz to 4	0 MHz			
Option B2X			10 Hz to 2	255 MHz			
			10112102				
Option B5X			10 Hz to 5	510 MHz			
Option B5X Option H1G				510 MHz			
Option B5X	nse (standard 10) MHz IF path)	10 Hz to 5	510 MHz			
Option B5X Option H1G IF frequency respo		O MHz IF path) tion and FFT respon	10 Hz to 5 10 Hz to 1	i10 MHz GHz			
Option B5X Option H1G IF frequency respo		·	10 Hz to 5 10 Hz to 1	i10 MHz GHz	Slope (dB/MHz) (95th	RMS (nominal)
Option B5X Option H1G IF frequency responsible frequency (GHz)	onse (demodulat	tion and FFT respon	10 Hz to 5 10 Hz to 1 se relative to the	GHz GHz e center frequency) Midwidth error (95th	') (95th	RMS (nominal)
Option B5X Option H1G IF frequency responsible frequency (GHz) \$\leq 3.6 \\ 3.6 \tau < 26.5	onse (demodulat Span (MHz)	tion and FFT respon Preselector	10 Hz to 5 10 Hz to 1 se relative to the Max error	GHz GHz Ce center frequency) Midwidth error (95th percentile)	percentile)) (95th	
Option B5X Option H1G IF frequency responsible frequency (GHz) \$\leq 3.6 \\ 3.6 \tau < 26.5	onse (demodulat Span (MHz) ≤ 10	Preselector	10 Hz to 5 10 Hz to 1 se relative to the Max error ± 0.20 dB	e center frequency) Midwidth error (95th percentile) ± 0.12 dB	percentile) ± 0.10 dB) (95th	0.02 dB
Option B5X Option H1G IF frequency responsible frequency (GHz) 3.6 3.6 to < 26.5 26.5	onse (demodulat Span (MHz) ≤ 10 ≤ 10	Preselector NA Off ₁₂	10 Hz to 5 10 Hz to 1 se relative to the Max error ± 0.20 dB ± 0.25 dB	GHz GHz Ce center frequency) Midwidth error (95th percentile) ± 0.12 dB ± 0.12 dB	percentile) ± 0.10 dB ± 0.10 dB) (95th	0.02 dB 0.02 dB
Option B5X Option H1G IF frequency responsible frequency (GHz) \$\preceq\$ 3.6 3.6 to < 26.5 \$\preceq\$ 26.5 IF phase linearity	onse (demodulat Span (MHz) ≤ 10 ≤ 10	Preselector NA Off ₁₂	10 Hz to 5 10 Hz to 1 se relative to the Max error ± 0.20 dB ± 0.25 dB	e center frequency) Midwidth error (95th percentile) ± 0.12 dB ± 0.12 dB ± 0.12 dB	percentile) ± 0.10 dB ± 0.10 dB) (95th RMS (nomin	0.02 dB 0.02 dB 0.024 dB
Option B5X Option H1G IF frequency responsive frequency (GHz) ≤ 3.6 3.6 to < 26.5 ≥ 26.5 IF phase linearity Center freq (GHz) ≥ 0.02, < 3.6	onse (demodulat Span (MHz) ≤ 10 ≤ 10	Preselector NA Off ₁₂ Off ₁₂	10 Hz to 5 10 Hz to 1 se relative to the Max error ± 0.20 dB ± 0.25 dB ± 0.30 dB	in MHz GHz GHz e center frequency) Midwidth error (95th percentile) ± 0.12 dB ± 0.12 dB ± 0.12 dB tor Peak-to-p 0.14°	percentile) ± 0.10 dB ± 0.10 dB ± 0.10 dB	RMS (nomin	0.02 dB 0.02 dB 0.024 dB
Option B5X Option H1G IF frequency responsive services of the services of th	onse (demodulat Span (MHz) ≤ 10 ≤ 10	Preselector NA Off ₁₂ Off ₁₂ Span (MHz)	10 Hz to 5 10 Hz to 1 se relative to the Max error ± 0.20 dB ± 0.25 dB ± 0.30 dB	GHz GHz GHz Ce center frequency) Midwidth error (95th percentile) ± 0.12 dB ± 0.12 dB ± 0.12 dB tor Peak-to-p	percentile) ± 0.10 dB ± 0.10 dB ± 0.10 dB	RMS (nomin	0.02 dB 0.02 dB 0.024 dB
Option B5X Option H1G IF frequency responsible frequency (GHz) \$\preceq\$ 3.6 3.6 to < 26.5 \$\preceq\$ 26.5 IF phase linearity Center freq (GHz) \$\preceq\$ 0.02, < 3.6 \$\preceq\$ 3.6	Span (MHz) ≤ 10 ≤ 10 ≤ 10 ≤ 10	tion and FFT response Preselector NA Off ₁₂ Off ₁₂ Span (MHz) \leq 10 \leq 10	10 Hz to 5 10 Hz to 1 se relative to the Max error ± 0.20 dB ± 0.25 dB ± 0.30 dB	in MHz GHz GHz e center frequency) Midwidth error (95th percentile) ± 0.12 dB ± 0.12 dB ± 0.12 dB tor Peak-to-p 0.14°	percentile) ± 0.10 dB ± 0.10 dB ± 0.10 dB	RMS (nomin	0.02 dB 0.02 dB 0.024 dB
Option B5X Option H1G IF frequency responsible frequency (GHz) ≤ 3.6 3.6 to < 26.5 ≥ 26.5 IF phase linearity Center freq (GHz)	Span (MHz) ≤ 10 ≤ 10 ≤ 10 ≤ 10	tion and FFT response Preselector NA Off ₁₂ Off ₁₂ Span (MHz) \leq 10 \leq 10	10 Hz to 5 10 Hz to 1 se relative to the Max error ± 0.20 dB ± 0.25 dB ± 0.30 dB	in MHz GHz GHz e center frequency) Midwidth error (95th percentile) ± 0.12 dB ± 0.12 dB ± 0.12 dB tor Peak-to-p 0.14° 0.27°	percentile) ± 0.10 dB ± 0.10 dB ± 0.10 dB	RMS (nomin 0.032° 0.057°	0.02 dB 0.02 dB 0.024 dB
Option B5X Option H1G IF frequency responsible frequency (GHz) ≤ 3.6 3.6 to < 26.5 ≥ 26.5 IF phase linearity Center freq (GHz) ≥ 0.02, < 3.6 ≥ 3.6 Dynamic range (st	Span (MHz) ≤ 10 ≤ 10 ≤ 10 ≤ 10	tion and FFT response Preselector NA Off ₁₂ Off ₁₂ Span (MHz) \leq 10 \leq 10	10 Hz to 5 10 Hz to 1 se relative to the Max error ± 0.20 dB ± 0.25 dB ± 0.30 dB	e center frequency) Midwidth error (95th percentile) ± 0.12 dB ± 0.12 dB ± 0.12 dB tor Peak-to-p 0.14° 0.27°	percentile) ± 0.10 dB ± 0.10 dB ± 0.10 dB	RMS (nomin 0.032° 0.057°	0.02 dB 0.02 dB 0.024 dB
Option B5X Option H1G IF frequency responsive frequency (GHz) ≤ 3.6 3.6 to < 26.5 ≥ 26.5 IF phase linearity Center freq (GHz) ≥ 0.02, < 3.6 ≥ 3.6 Dynamic range (st.)	Span (MHz) ≤ 10 ≤ 10 ≤ 10 ≤ 10	Preselector NA Off ₁₂ Off ₁₂ Span (MHz) ≤ 10 ≤ 10 F path)	10 Hz to 5 10 Hz to 1 se relative to the Max error ± 0.20 dB ± 0.25 dB ± 0.30 dB	e center frequency) Midwidth error (95th percentile) ± 0.12 dB ± 0.12 dB ± 0.12 dB tor Peak-to-p 0.14° 0.27°	percentile) ± 0.10 dB ± 0.10 dB ± 0.10 dB eak (nominal) residuals and spurequency ≥ 20 MHz	RMS (nomin 0.032° 0.057°	0.02 dB 0.02 dB 0.024 dB

^{1.} MPB (microwave preselector bypass) is enabled. All UXAs ship with MPB as a standard feature.

Data acquisition (standard 10 MHz IF	path)			
Time record length				
Analysis tool				
IQ analyzer	8,000,000 IQ sample pairs		Waveform measurement	
Advanced tool	Data	Data packing		
	32-bit	64-bit	— With 89600 VSA or fast capture	
Length (IQ sample pairs)	536 MSa (2 ²⁹ Sa)	268 MSa (2 ²⁸ Sa)	2 GB total memory	
Length (time units)	Samples/Sample rate (IQ pa	irs)		
Sample rate				
IQ pairs	1.25 x IFBW			
ADC resolution	16 bits			

IF frequency respon	nse (standard 25 M	Hz IF path)				
IF frequency respo	nse (demodulation	and FFT response re	lative to the center f	requency)		
Freq (GHz)	Span (MHz)	Preselector	Max error	Midwidth error (95th percentile)	Slope (dB/MHz) (95th percentile)	RMS (nominal)
< 3.6	≤ 25	NA	± 0.30 dB	± 0.12 dB	± 0.1 dB	0.02 dB
3.6 to < 26.5	≤ 25	Off ¹	± 0.40 dB	± 0.12 dB	± 0.1 dB	0.03 dB
≥ 26.5	≤ 25	Off ¹	± 0.40 dB			0.02 dB
IF phase linearity						
Center freq (GHz)	Span (MHz)	Preselector		Peak-to-peak (nom	inal)	RMS (nominal)
≥ 0.02, < 3.6	≤ 25	NA		0.41°		0.11°
≥ 3.6	≤ 25	Off ¹		1.0°		0.27°
Dynamic range (sta	ındard 25 MHz IF pa	ath)				
Full scale (ADC clip	ping)					
Default settings, s	signal at CF					
(IF gain = Low)						
Band 0				-8 dBm mixer level	nominal	
Bands 1 through	h 4			-7 dBm mixer level	nominal	
High gain setting,	signal at CF					
(IF gain = High)						
Band 0				-18 dBm mixer leve	l nominal, subject to g	ain limitations
Bands 1 through	16			–17 dBm mixer leve	l nominal, subject to g	ain limitations
Effect of signal freq	uency ≠ CF			Up to ± 3 dB nomin	al	

^{1.} MPB (microwave preselector bypass) is enabled. All UXAs ship with MPB as a standard feature.

Data acquisition (standard 25 MHz IF p	path)			
Time record length				
Analysis tool				
IQ analyzer	8,000,000 IQ sample pairs		Waveform measurement	
Advanced tool	Data pa	Data packing		
	32-bit	64-bit	— With 89600 VSA or fast capture	
Length (IQ sample pairs)	536 MSa (2 ²⁹ Sa)	268 MSa (2 ²⁸ Sa)	2 GB total memory	
Length (time units)	Samples/Sample rate (IQ pairs)			
Sample rate				
IQ pairs	1.25 x IF BW			
ADC resolution	16 bits			

Option B40 40 MHz analysis bandwidth (Option B40 is automatically included in Option B2X, B5X, or H1G)

1	,	· 1	,		
IF frequency respons	se (40 MHz IF path)				
IF frequency respon	se (relative to center)				
Freq (GHz)	Span (MHz)	Preselector	Specification	Typical	RMS (nominal)
≥ 0.03, < 3.6	≤ 40	NA	± 0.37 dB	± 0.22 dB	0.07 dB
≥ 3.6, ≤ 8.4	≤ 40	Off ¹	± 0.5 dB	± 0.13 dB	0.05 dB
> 8.4, ≤ 26.5	≤ 40	Off ¹	± 0.7 dB	± 0.14 dB	0.05 dB
> 26.5, ≤ 34.4	≤ 40	Off ¹	± 0.8 dB	± 0.25 dB	0.07 dB
> 34.4	≤ 40	Off ¹	± 1 dB	± 0.35 dB	0.07 dB
IF phase linearity					
Center freq (GHz)	Span (MHz)	Preselector	Peak-to-peak (nominal)	RMS (nominal)	
≥ 0.02, < 3.6	≤ 40	NA	0.36°	0.083°	
≥ 3.6	≤ 40	Off ¹	1.0°	0.24°	
Dynamic range (40 N	/IHz IF path)				
SFDR					
(Spurious-free dynam	nic range)				
Signal frequency wi	thin ± 12 MHz of center		-80 dBc nominal		
Signal frequency an	ywhere within analysis E	3W			
Spurious response within ± 18 MHz of center		-79 dBc nominal			
Response anywhere within analysis BW		-77 dBc nominal			
Full scale (ADC clippi	ng)		Mixer level		
Default settings, sig	nal at CF (IF gain = Low)		RF/MW (Opt 508, 513, 5	26)	mmW (Opt 544, 550)
Band 0	-		-8 dBm nominal		-8 dBm nominal
Bands 1 through	4		-6 dBm nominal		-7 dBm nominal
Bands 5 through	6				-7 dBm nominal
High gain setting, s	ignal at CF (IF gain = Hig	h)	subject to gain limitation	ns	
Band 0			-16 dBm nominal		-12 dBm nominal
Bands 1 through	2		-9 dBm nominal		-16 dBm nominal
Bands 3 through	4		-6 dBm nominal		-16 dBm nominal
Bands 5 through	6				-15 dBm nominal
Effect of signal freque	ency ≠ CF		Up to ± 4 dB nominal		

^{1.} MPB (microwave preselector bypass) is enabled. All UXAs ship with MPB as a standard feature.

Data acquisition (40 MHz IF path)				
Time record length				
Analysis tool				
IQ analyzer	8,000,000 IQ sample pairs		Waveform measurement	
Advanced tool	Data packi	Data packing		
	32-bit	64-bit	— With 89600 VSA software or fast capture	
Length (IQ sample pairs)	536 MSa (2 ²⁹ Sa)	268 MSa (2 ²⁸ Sa)	2 GB total memory	
Length (time units)	Samples/Sample rate (IQ pairs)			
Sample rate				
IQ pairs	1.25 x IF BW			
ADC resolution	12 bits			

Option B2X 255 MHz analysis bandwidth (Option B2X is automatically included with Option B5X or H1G)

IF frequency response	(255 MHz IF path)				
Center Freq (GHz)	Span (MHz)	Preselector	Specification	Typical	RMS (nominal)
≥ 0.4, < 3.6 > 3.6, ≤ 8.4 > 8.4	≤ 255 ≤ 255 ≤ 255	NA Off ¹ Off ¹	± 0.74 dB ± 0.82 dB	± 0.3 dB ± 0.34 dB ± 0.8 dB nominal	0.1 dB 0.1 dB 0.2 dB
IF phase linearity (255	MHz IF path)				
Center Freq (GHz)	Span (MHz)	Preselector		Pk-to-pk (nominal)	RMS (nominal)
≥ 0.4, < 3.6 ≥ 3.6, < 26.5 ≥ 26.5	≤ 255 ≤ 255 ≤ 255	NA Off ¹ Off ¹		3° 2° 4°	0.6° 0.5° 0.8°
Dynamic range (255 M	(IHz IF path)				
Spurious-free dynamic Anywhere within the a				-78 dBc nominal	
Full scale (ADC clipping	g)		Mixer level		
Default setting, signal Band 0 Bands 1 through 2 Bands 3 through 4 Bands 5 through 6			RF/MW (Opt 508, 513, 526) +2 dBm nominal +4 dBm nominal +4 dBm nominal		mmW (Opt 544, 550) +3 dBm nominal +3 dBm nominal +1 dBm nominal +1 dBm nominal
High gain setting, signa Band 0 Bands 1 through 2 Bands 3 through 4 Bands 5 through 6			-4 dBm nominal +2 dBm nominal +4 dBm nominal		-1 dBm nominal -4 dBm nominal -6 dBm nominal -5 dBm nominal
Effect of signal frequer	ncy ≠ CF		Up to ± 4 dB nominal		
IF residual responses a	across the full BW				
Band 0 Band 1			Preselector off ¹		-110 dBFS nominal -108 dBFS nominal
Third-order intermodul (Two tones of equal lev		each tone -23 dB relative t	o full scale (ADC clipping), IF gain :	= high)	
Band 0 Bands 1 through Bands 5 through			Preselector off ¹ Preselector off ¹		-85 dBc nominal -85 dBc nominal -80 dBc nominal

^{1.} MPB (microwave preselector bypass) is enabled. All UXA ship with MPB as a standard feature

Frequency (GHz)		IF gain = Low	IF gain = High
1.80		-144 dBm/Hz	-145 dBm/Hz
6.00		-141 dBm/Hz	–142 dBm/Hz
10.80		-140 dBm/Hz	–141 dBm/Hz
15.15		-137 dBm/Hz	-137 dBm/Hz
21.80		-135 dBm/Hz	-135 dBm/Hz
30.50		-130 dBm/Hz	-130 dBm/Hz
42.25		-130 dBm/Hz	-130 dBm/Hz
55 MHz IF path)			
	8,000,000 IQ sample pa	irs	Waveform measurement
	Data packing		QQCQQ VCA or fact conture
	32-bit	64-bit	— 89600 VSA or fast capture
mple pairs)	1073 MSa (2 ³⁰ Sa)	536 MSa (2 ²⁹ Sa)	4 GB total memory (Option DP4)
e time			
(89600 VSA and fast capture)		rs/sample rate (IQ pairs)	
Sample rate (IQ pairs) Minimum of		/, 300 Msa/s)	
	14 bits		
	1.80 6.00 10.80 15.15 21.80 30.50 42.25 55 MHz IF path)	1.80 6.00 10.80 15.15 21.80 30.50 42.25 55 MHz IF path) 8,000,000 IQ sample pa Data p 32-bit nple pairs) 1073 MSa (2 ³⁰ Sa) e time st capture) Length of IQ sample pairs) Minimum of (1.25 x IFBW	1.80

Option B5X 510 MHz analysis bandwidth

IF frequency response (510 MHz IF pa	ath)				
Center Freq (GHz)	Span (MHz)	Preselector	Specification	Typical	RMS (nominal)
≥ 0.6, < 3.6 > 3.6, ≤ 8.4 > 8.4, ≤ 26.5 > 26.5	≤ 510 ≤ 510 ≤ 510 ≤ 510	NA Off ¹ Off ¹ Off ¹	± 1.0 dB ± 1.25 dB	± 0.41 dB ± 0.42 dB ± 0.8 dB nominal ± 1 dB nominal	0.06 dB 0.3 dB
IF phase linearity (510 MHz IF path)					
Center Freq (GHz)	Span (MHz)	Preselector		Pk-to-pk (nominal)	RMS (nominal)
≥ 0.4, < 3.6 ≥ 3.6, < 26.5 ≥ 26.5	≤ 510 ≤ 510 ≤ 510	NA Off Off		5° 6° 7°	1° 1.4° 1.6°
Dynamic range (510 MHz IF path)					
Spurious-free dynamic range (SFDR) Anywhere within the analysis BW		-78 dBc nominal			
Full scale (ADC clipping)	Mixer level				
Default setting, signal at CF Band 0 Bands 1 through 2 Bands 3 through 4 Bands 5 through 6	RF/MW (Opt 508, 513, 526) +2 dBm nominal +2 dBm nominal +2 dBm nominal		mmW (Opt 544, 550) +2.5 dBm nominal +3.5 dBm nominal +1 dBm nominal +1 dBm nominal		
High gain setting, signal at CF Band 0 Bands 1 through 2 Bands 3 through 4 Bands 5 through 6	-3 dBm nominal 0 dBm nominal +2 dBm nominal		-1 dBm nominal -7 dBm nominal -9 dBm nominal -9 dBm nominal		

^{1.} MPB (microwave preselector bypass) is enabled. All UXA ship with MPB as a standard feature

Effect of signa	of signal frequency ≠ CF			
IF residual res	ponses across the full BW			
Band 0 Band 1		Preselector off ¹		-110 dBFS nominal -108 dBFS nominal
	termodulation distortion equal level, 1 MHz separation, e	ach tone -23 dB relative to full scale (/	ADC clipping), IF gain = high)	
	through 4 through 6	Preselector off ¹ Preselector off ¹		-85 dBc nominal -82 dBc nominal -79 dBc nominal
Noise density				
Time record le	Frequency (GHz) 1.80 6.00 10.80 15.15 21.80 30.50 42.25 on (510 MHz IF path)	0,000,000 IO comple pairs	IF gain = Low -144 dBm/Hz -140 dBm/Hz -140 dBm/Hz -137 dBm/Hz -135 dBm/Hz -130 dBm/Hz -130 dBm/Hz	IF gain = High -144 dBm/Hz -142 dBm/Hz -141 dBm/Hz -137 dBm/Hz -135 dBm/Hz -130 dBm/Hz -130 dBm/Hz
IQ analyzer		8,000,000 IQ sample pairs		Waveform measurement
Advanced too	ols	Data p 32-bit	acking 64-bit	— 89600 VSA or fast capture
IFBW ≤2	IQ sample pairs) :55.176 MHz 55.176 MHz	1073 MSa (2 ³⁰ Sa) 2,147 MSa (2 ³⁰ Sa)	536 MSa (2 ²⁹ Sa) 1073 MSa (2 ³⁰ Sa)	4 GB total memory 8 GB total memory (Option DP4)
Maximum IQ c (89600 VSA a	apture time and fast capture)	Length of IQ sample pairs/samp	e rate (IQ pairs)	
Sample rate (II	Q pairs)	Minimum of (1.25 x IFBW, 300 Msa/s)		
ADC resolution	n	14 bits		

Option H1G 1 GHz analysis bandwidth

IF frequency response (1 GHz IF path)			
Center Freq (GHz)	Span (MHz)	Preselector	Max Error (nominal)	
≥ 0.7, < 3.6 > 3.6, ≤ 8.4 > 8.4, ≤ 26.5 > 26.5	≤ 1000 ≤ 1000 ≤ 1000 ≤ 1000	NA Off ¹ Off ¹ Off ¹	0.7 dB 0.7 dB 1.0 dB 1.25 dB	
IF phase linearity (510 M	MHz IF path)			
Center Freq (GHz)	Span (MHz)	Preselector	Pk-to-pk (nominal)	RMS (nominal)
≥ 0.7, < 3.6 > 3.6	≤ 1000 ≤ 1000	NA Off ¹	7° 6°	1.5° 1.3°

^{1.} MPB (microwave preselector bypass) is enabled. All UXA ship with MPB as a standard feature

Dynamic range (1 GHz IF	path)	Center frequency	
Suprious-free dynamic range (SFDR) anywhere within the analysis BW		< 3.1 GHz ≥ 3.1 GHz	-62 dBc nominal -56 dBc nominal
Effect of signal frequency	≠ CF	Up to ± 4 dB nominal	
IF residual responses acro	oss the full BW ²		IF gain = Low
Band 0 Band 1		Preselector off ¹	-67 dBFS nominal -69 dBFS nominal
Noise density (preselecto	r off above band 0)		
Band 0 1 2 3 4 5 6 Data acquisition (1 GHz I	Frequency (GHz) 1.80 6.00 10.80 15.15 21.80 30.5 42.25		IF gain = High (nominal) -152 dBm/Hz -153 dBm/Hz -151 dBm/Hz -151 dBm/Hz -149 dBm/Hz -147 dBm/Hz -142 dBm/Hz
Time record length IQ analyzer		8,000,000 IQ sample pairs	Waveform measurement
Advanced tools		32-bit data packing	89600 VSA or fast capture
IF bandwidth		Length (IQ sample pairs)	00000 VOA OF Tast capture
1 GHz ≥ IFBW > 500 MHz 500 MHz ≥ IFBW > 250 M 250 MHz ≥ IFBW > 125 M 125 MHz ≥ IFBW > 62.5 M 62.5 MHz ≥ IFBW > 40 MI	IHz Hz 1Hz	838,859,979 to 419,429,990 838,859,979 to 419,429,990 838,859,979 to 419,429,990 838,859,979 to 419,429,990 838,859,979 to 419,429,990	
Maximum IQ capture time (89600 VSA and fast cap		Length of IQ sample pairs/sample rate (IQ pairs)	
Sample rate (IQ pairs)		1.25 x IFBW	
ADC resolution		12 bits	

MPB (microwave preselector bypass) is enabled. All UXA ship with MPB as a standard feature.
 The residual performance is dominated by a single residual 50 MHz to the left of the center of screen.

Real-time Spectrum Analyzer (RTSA)

Option RT1 real-time spectrum analyzer, basic detection, or RT2 real-time spectrum analyzer, optimal detection

Analysis BW option determines the max real-time BW

Requires Option B5X

Signal is at mask level

For Frequency Mask Triggering (FMT)

Signal is at mask level, span > 85 MHz

(max 255 MHz with B2X or H1G, max 510 MHz with B5X)

Real-time analysis

Real-time analysis bandwidth

Option RT1 Up to 509.47 MHz
Option RT2 Up to 509.47 MHz

Option DUA Up to 2 x 255 MHz at same center frequency

Minimum detectable signal duration

with > 60 dB StM¹ ratio

Option RT1 11.42 ns Option RT2 3.33 ns

Minimum signal duration with 100%

probability of intercept (POI) at full

amplitude accuracy

 $\begin{array}{ccc} \text{Option RT1} & & 17.17 \ \mu\text{s} \\ \text{Option RT2} & & 3.51 \ \mu\text{s} \\ \text{Minimum acquisition time} & & 100 \ \mu\text{s} \\ \text{FFT rate} & & 292,969/\text{s} \end{array}$

Supported detectors Peak, Negative Peak, Sample, Average Number of traces 6

Number of traces 6 Number of markers 12

Supported markers Normal, Delta, Noise, Band Power

Supported triggers

Level, Level with Time Qualified (TQT), Line, External,

RF burst, Frame, Frequency Mask (FMT), FMT with TQT

^{1. &}quot;StM" = "Signal-to-Mask"

Option RTS Real-time I/Q Data Streaming

Real-time streaming ¹			
Output stream resolution	16-bit I + jQ		
IQ streaming bandwidth	255 MHz		
Electrical interface	LVDS		
Sample rate	varies continuously based on RTS	A span setting	
Max IQ streaming bandwidth and sar	nple rate		
B1X	160 MHz	200 Msamples/s	
B2X, B5X, or H1G	255 MHz	300 Msamples/s	
Supported data recorder	X-COM Systems IQC5255B		
Capture time	< 3 hours at 255 MHz bandwidth		
Data tagging	Event markers, IRIG-B GPS		

^{1.} Use with X-COM Systems IQC5255B data recorder to capture rare events and play back at RF using integrated control software on the UXA.

Related Literature

UXA Brochure, 5992-0089EN UXA Configuration Guide, 5992-0043EN UXA Specifications Guide, N9040-90002

Learn more at: www.keysight.com

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