

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N5182BX07 Frequency Extender

Agilent Keysight N5182BX07 Frequency Extender 9 kHz to 7.2 GHz The Keysight N5182BX07 extends an N5182B MXG or N5172B EXG (Option 506) to a single RF output covering 9 kHz to 7.2 GHz. OEM N5182BX07 data sheet lists a pass-through band below 5.900001 GHz, an upconverter band to 7.2 GHz, 0 to 121 dB mechanical step attenuation in 1 dB steps, Type-N 50 ohm ports, and 160 MHz modulation bandwidth with EVM less than minus 47 dB (0.45 percent) at up to 5 dBm for 802.11ax. 802.11ax and 5G unlicensed-band vector-signal generation through 7.2 GHz while keeping MXG/EXG front-panel and SCPI control via LAN, GPIB, or USB. The Keysight N5182BX07 extends an N5182B MXG or N5172B EXG (Option 506) to a single RF output covering 9 kHz to 7.2 GHz. OEM N5182BX07 data sheet lists a pass-through band below 5.900001 GHz, an upconverter band to 7.2 GHz, 0 to 121 dB mechanical step attenuation in 1 dB steps, Type-N 50 ohm ports, and 160 MHz modulation bandwidth with EVM less than minus 47 dB (0.45 percent) at up to 5 dBm for 802.11ax. 802.11ax and 5G unlicensed-band vector-signal generation through 7.2 GHz while keeping MXG/EXG front-panel and SCPI control via LAN, GPIB, or USB.



MODEL

**Agilent / Keysight
N5182BX07**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N5182BX07

LISTING

<https://aumictechlabs.com/products/n5182bx07-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight N5182BX07 MXG X-Series vector signal generator is engineered for demanding signal generation tasks. It has precise control over frequency, amplitude, and modulation, enabling comprehensive testing of complex signals. With its fast switching speed and high dynamic range, it is suitable for simulating realistic signal environments and ensuring the performance of modern electronic devices and systems.

N5182BX07 Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Vector signal generator frequency extender
Frequency Range	9 kHz to 7.2 GHz
Passthrough Band	9 kHz to less than 5.900001 GHz
Upconverter Band	5.900001 GHz to 7.2 GHz
Switching Crossing 5p9 Ghz	less than or equal to 30 ms nominal
Reference Input Frequency	10 MHz
Reference Lock Range	plus or minus 1 ppm nominal
Reference Amplitude	0 dBm nominal
Settable With 1ea Passthrough	plus 30 to minus 144 dBm
Settable With 1ea Upconverter	plus 28 to minus 144 dBm
Settable Without 1ea	plus 19 to minus 144 dBm (both bands)
Step Attenuator Upconverter	0 to 121 dB in 1 dB steps, mechanical
Rf Connectors	Type N, 50 ohm nominal (input and output)
Max Power 200 Khz To 10 Mhz	plus 12 dBm typical standard; plus 16 dBm typical with 1EA
Max Power 10 Mhz To 3 Ghz	plus 17 dBm typical standard; plus 23 dBm typical with 1EA
Max Power 3 To 5 Ghz	plus 14 dBm typical standard; plus 17 dBm typical with 1EA
Max Power 5 To 5p9 Ghz	plus 14 dBm typical standard; plus 15 dBm typical with 1EA
Max Power Upconverter Band	plus 16 dBm (plus 18 dBm typ) standard; plus 25 dBm (plus 27 dBm typ) with 1EA
Modulation Bandwidth	160 MHz
Evm 80211ax	less than minus 47 dB (0.45 percent) for output power up to 5 dBm
Warm Up	45 minutes
Spec Temperature Storage	stored at least two hours within 0 to 55 C operating range before test
Host Generators	N5182B MXG or N5172B EXG with Option 506
Literature	Keysight N5182BX07 Frequency Extender data sheet

PARAMETER	VALUE
Bandwidth	160 MHz

N5182BX07 Specifications

PARAMETER	VALUE
Key Features	Single Type-N output 9 kHz to 7.2 GHz
Same SCPI as the host MXG or EXG	Specified after 45 minute warm-up, 0 to 55 C storage-before-test, Extender Input Power Offset 0 dB
Technical Specifications	Instrument Type: Vector signal generator frequency extender

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Instrument Type	Vector signal generator frequency extender
Frequency Range	9 kHz to 7.2 GHz
Passthrough Band	9 kHz to less than 5.900001 GHz
Upconverter Band	5.900001 GHz to 7.2 GHz
Switching Crossing 5p9 Ghz	less than or equal to 30 ms nominal
Reference Input Frequency	10 MHz
Reference Lock Range	plus or minus 1 ppm nominal
Reference Amplitude	0 dBm nominal
Settable With 1ea Passthrough	plus 30 to minus 144 dBm
Settable With 1ea Upconverter	plus 28 to minus 144 dBm
Settable Without 1ea	plus 19 to minus 144 dBm (both bands)
Step Attenuator Upconverter	0 to 121 dB in 1 dB steps, mechanical
Rf Connectors	Type N, 50 ohm nominal (input and output)
Max Power 200 Khz To 10 Mhz	plus 12 dBm typical standard; plus 16 dBm typical with 1EA
Max Power 10 Mhz To 3 Ghz	plus 17 dBm typical standard; plus 23 dBm typical with 1EA
Max Power 3 To 5 Ghz	plus 14 dBm typical standard; plus 17 dBm typical with 1EA
Max Power 5 To 5p9 Ghz	plus 14 dBm typical standard; plus 15 dBm typical with 1EA
Max Power Upconverter Band	plus 16 dBm (plus 18 dBm typ) standard; plus 25 dBm (plus 27 dBm typ) with 1EA
Modulation Bandwidth	160 MHz
Evm 80211ax	less than minus 47 dB (0.45 percent) for output power up to 5 dBm
Warm Up	45 minutes
Spec Temperature Storage	stored at least two hours within 0 to 55 C operating range before test
Host Generators	N5182B MXG or N5172B EXG with Option 506
Literature	Keysight N5182BX07 Frequency Extender data sheet

Notes

Frequency, amplitude, and maximum-power rows from Keysight N5182BX07 Frequency Extender data sheet. 160 MHz bandwidth and EVM less than minus 47 dB (0.45 percent) at up to 5 dBm from the Keysight N5182BX07 product specification highlights. Conditions: calibrated instrument, Extender Input Power Offset 0 dB.

Ordering Information

OPTION	DESCRIPTION
Option 506	Literature: Keysight N5182BX07 Frequency Extender data sheet

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.