

# Keysight Application Bundles

Gear up for all your application needs with a limited-time offer on hardware + software bundles

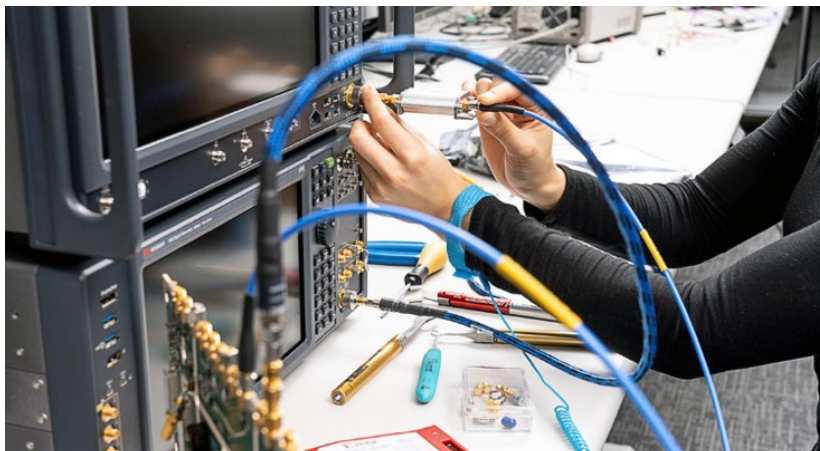
## Keysight's Complete Application Solutions

Whether you are designing state-of-the-art wideband wireless products for 5G, Wi-Fi, satellite communications (satcom), or radar applications requires an in-depth understanding of the test requirements. To meet your design needs, you must develop an accurate and reliable test system that delivers optimal performance. Keysight's broad portfolio of measurement applications for signal analysis and signal generation offers exceptional performance to accelerate your signal creation and analysis.

## Save Up to 35% on Pre-Configured Bundles

Choosing the right options for your signal analyzer or signal generator based on your application just got easier, and less expensive. Selecting the necessary performance hardware and adding application-specific software gives you faster, more diverse insights at a lower cost.

You can eliminate the need to navigate through which hardware options and software applications to choose by selecting a bundle created by Keysight engineers.



**Save Up to 35% on  
Application Bundles**

**Start Date:**

January 1, 2022

**End Date:**

September 30, 2022

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## 5G NR Bundles FR1

### Signal Analyzer 5G NR FR1 Bundles



Choose either an MXA, PXA or UXA paired with the N9085EM0E X-series measurement application for 5G NR analysis at FR1 frequencies.

Option	Description	N9020B-050	N9020B-051	N9030B-050	N9030B-051	N9030B-053	N9032B-051	N9042B-054	N9042B-055
513	Frequency Range up to 13.6 GHz	•		•					
526	Frequency Range up to 26.5 GHz		•		•	•	•	•	•
B1X	Analysis Bandwidth, 160 MHz	•	•	•	•				
B5X	Analysis bandwidth, 510 MHz					•			
R20	Analysis Bandwidth, 2 GHz						•	•	
R40	Analysis Bandwidth, 4 GHz								•
EA3	Electronic attenuator, 3.6 GHz							•	•
PFR	Precision Frequency Reference	•	•	•	•	•	•	•	•
MPB	Microwave Preselector Bypass	•	•	•	•	•	•	•	•
FBP	Full Bypass Path					•	•	•	•
LNP	Low Noise Path			•	•	•	•	•	•
EP0	Enhanced Phase Noise DDS LO					•	•	•	•

P13	Preamplifier, 13.6 GHz	•		•					
P26	Preamplifier, 26.5 GHz		•		•	•	•	•	•
N9085EM0E 5G NR Measurement Application		•	•	•	•	•	•	•	•

### Signal Generator 5G NR FR1 Bundles



Choose either an EXG or MXG paired with the N7631C PathWave Signal Generation for 5G NR to create signals at FR1 frequencies.

Option	Description	N5172B-050	N5182B-050
506	Frequency Range, 9 kHz to 6 GHz	•	•
653	ARB Baseband Generator (60 MHz RF bandwidth, 32 Msa)	•	
655	Upgrade Baseband Generator from 60 to 120 MHz RF Bandwidth	•	
656	ARB Baseband Generator (80 MHz RF Bandwidth, 32 Msa)		•
657	Upgrade Baseband Generator from 80 to 160 MHz RF Bandwidth	•	•
1EA	High Output Power	•	•
UNV	Enhanced Dynamic Range	•	•
099	Expanded License Key Upgradability	•	•
FRQ	Frequency extender connectivity	•	•
N7631C PathWave Signal Generation for 5G NR		•	•



## 5G NR Bundles FR2

### Signal Analyzer 5G NR FR2 Bundles



Choose from an MXA, PXA, or UXA paired with the N9085EM0E X-series measurement application for 5G NR analysis at FR2 frequencies.

Option	Description	N9021B-052	N9030B-052	N9040B-052	N9042B-052	N9042B-053
550	Frequency Range up to 50 GHz	•	•	•	•	•
B5X	Analysis bandwidth, 510 MHz	•	•			
H1G	Analysis Bandwidth, 1 GHz			•		
R20	Analysis Bandwidth, 2 GHz				•	•
PFR	Precision Frequency Reference	•	•	•	•	•
MPB	Microwave Preselector Bypass	•	•	•	•	•
FBP	Full Bypass Path		•	•	•	•
LNP	Low Noise Path		•	•	•	•
EP0	Enhanced Phase Noise DDS LO		•	•	•	•
P50	Preamplifier, 50 GHz	•	•	•	•	
P5L	Preamplifier, 50 GHz, Basic					•
N9085EM0E 5G NR Measurement Application		•	•	•	•	•

## Signal Generator 5G NR FR2 Bundles



Choose a VXG paired with the N7631C PathWave Signal Generation for 5G NR to create signals at FR2 frequencies.

Option	Description	M9384B-052	M9384BB-053
001	Add channel 1	•	•
F44	Frequency range, 1 MHz to 44 GHz	•	•
ST6	Enhanced low phase noise	•	
600	Enhanced high performance reference	•	
ST5	Low phase noise		•
500	High performance reference		•
D21	RF bandwidth, 2 GHz with 256 MSa memory	•	
D2E	RF bandwidth, 2 GHz with 256 MSa memory, Limited		•
1EB	High Output Power from 20 GHz to 44 GHz	•	
1EE	High Output Power from 20 GHz to 43.5 GHz, Limited Above 43.5 GHz		•
403	Calibrated AWGN	•	•
M10	Baseband generator memory upgrade to 1024 MSa	•	•
N7631C PathWave Signal Generation for 5G NR		•	•



## WLAN Bundles (WiFi 6E)

### Signal Analyzer WLAN WiFi6E Bundles



Choose either an MXA or PXA paired with the N9077EM0/1E X-series measurement application for WLAN 802.11.

Option	Description	N9020B-06 I	N9030B-06 I
526	Frequency Range up to 26.5 GHz	•	•
B1X	Analysis Bandwidth, 160 MHz	•	•
PFR	Precision Frequency Reference	•	•
MPB	Microwave Preselector Bypass	•	•
LNP	Low Noise Path		•
P26	Preamplifier, 26.5 GHz	•	•
N9077EM0/1E WLAN Measurement Application		•	•

## Signal Generator WLAN WiFi6E Bundles



Choose either an EXG or MXG paired with the N7617C PathWave Signal Generation to create WLAN 802.11 signals.

Option	Description	N5172B-060	N5182B-060
506	Frequency Range, 9 kHz to 6 GHz	•	•
653	ARB Baseband Generator (60 MHz RF bandwidth, 32 Msa)	•	
655	Upgrade Baseband Generator from 60 to 120 MHz RF Bandwidth	•	
656	ARB Baseband Generator (80 MHz RF Bandwidth, 32 Msa)		•
657	Upgrade Baseband Generator from 80 to 160 MHz RF Bandwidth	•	•
1EA	High Output Power	•	•
UNV	Enhanced Dynamic Range	•	•
099	Expanded License Key Upgradability	•	•
FRQ	Frequency extender connectivity	•	•
N7617C PathWave Signal Generation for WLAN 802.11		•	•





## WLAN Bundles (WiFi 7)

### Signal Analyzer WLAN WiFi7 Bundles



Choose either an PXA or UXA paired with the N9077EM0/1/2E X-series measurement application for WLAN 802.11.

Option	Description	N9030B-071	N9032B-070	N9040B-071
526	Frequency Range up to 26.5 GHz	•	•	•
B5X	Analysis Bandwidth, 510 MHz	•		•
R20	Analysis Bandwidth, 2 GHz		•	
PFR	Precision Frequency Reference	•	•	•
MPB	Microwave Preselector Bypass	•	•	•
LNP	Low Noise Path		•	•
FBP	Full Bypass Path	•	•	•
EP0	Enhanced Phase Noise, DDS LO	•	•	•
P26	Preamplifier, 26.5 GHz	•	•	•
N9077EM0/1/2E WLAN Measurement Application		•	•	•

## Signal Generator WLAN WiFi7 Bundles



Choose a VXG paired with the N7617C PathWave Signal Generation to create WLAN 802.11 signals

Option	Description	M9384B-070	M9384BB-071
001	Add channel 1	•	•
F14	Frequency range, 1 MHz to 14 GHz	•	•
ST6	Enhanced low phase noise	•	
600	Enhanced high performance reference	•	
ST5	Low phase noise		•
500	High performance reference		•
D05	RF bandwidth, 500 MHz with 256 MSa memory	•	•
403	Calibrated AWGN	•	•
M10	Baseband generator memory upgrade to 1024 MSa	•	•
N7617C PathWave Signal Generation for WLAN 802.11		•	•



## Radar Bundles

### Signal Analyzer Radar Bundles



Choose either an PXA or UXA paired with the N9067EM0E X-series measurement application for pulse analysis.

Option	Description	N9030B-080	N9030B-081	N9030B-082	N9040B-080	N9040B-081
526	Frequency Range up to 26.5 GHz	•	•	•		
550	Frequency Range up to 50 GHz				•	•
B5X	Analysis Bandwidth, 510 MHz	•	•	•	•	•
EP0	Enhanced Phase Noise, DDS LO	•	•	•	•	•
MPB	Microwave Preselector Bypass	•	•	•	•	•
P26	Preamplifier, 26.5 GHz	•	•	•		
P50	Preamplifier, 50 GHz				•	•
N90EMRT2B Real-time Analysis		•			•	
N90EMDUAB Duplex IF RTSA		•			•	
N9054EM0E Vector Modulation Analysis Digital Demodulation Measurement Application				•		
N9067EM0E Pulse Analysis Measurement Application		•	•		•	•

## Signal Generator Radar Bundles



Choose a PSG paired with N7620B PathWave Signal Generation for Pulse Building.

Option	Description	E8267D-080	E8267D-081	E8267D-082	E8267D-083
520	Frequency Range, 250 kHz to 20 GHz	•	•		
544	Frequency Range, 250 kHz to 44 GHz			•	•
602	Internal Baseband Generator	•	•	•	•
UNW	Narrow Pulse Modulation	•	•		
UNU	Pulse Modulation			•	•
UNY	Enhanced Ultra-Low Phase Noise Performance	•	•		
UNX	Ultra-Low Phase Noise Performance			•	•
1EH	Improved Harmonics Below 2 GHz	•	•	•	•
UNT	AM, FM, Phase Modulation, and LF Output	•	•	•	•
	N7620B PathWave Signal Generation for Pulse Building	•	•	•	•



## Satellite Communications Bundles

### Signal Analyzer Satellite Communications Bundles



Choose a PXA or UXA paired with N9054EM0E X-series measurement application for vector modulation analysis to analyze satellite communications signals.

Option	Description	N9032B-090	N9040B-090	N9042B-090	N9042B-091	N9042B-092	N9042B-093
526	Frequency Range up to 26.5 GHz	•					
550	Frequency Range up to 50 GHz		•	•	•	•	•
H52	Frequency Range Extension to 52 GHz		•				
EA3	Electronic Attenuator, 3.6 GHz	•					
LNP	Low Noise Path	•	•	•	•	•	•
FBP	Full Bypass Path	•	•	•	•	•	•
H1G	Analysis Bandwidth, 1 GHz		•				
R20	Analysis Bandwidth, 2 GHz	•		•	•		
R40	Analysis Bandwidth, 4 GHz					•	•
P26	Preamplifier, 26.5 GHz	•					
P50	Preamplifier, 50 GHz		•	•		•	
P50L	Preamplifier, 50 GHz, basic				•		•
N9054EM0E Vector Modulation Analysis Measurement Application		•	•	•	•	•	•

## Signal Generator Satellite Communications Bundles



Choose a VXG paired with the N7608C PathWave Signal Generation to create custom modulations/SatComm signals

Option	Description	M9384B-090	M9384BB-091
001	Add channel 1	•	•
F44	Frequency range, 1 MHz to 44 GHz	•	•
ST6	Enhanced low phase noise	•	
600	Enhanced high performance reference	•	
ST5	Low phase noise		•
500	High performance reference		•
D21	RF bandwidth, 2 GHz with 256 MSa memory	•	
D2E	RF bandwidth, 2 GHz with 256 MSa memory Limited		•
1EB	High output power (20 GHz to 44 GHz)	•	
1EE	High output power (20 GHz to 43.5 GHz, limited > 43.5 GHz)		•
EXT	Wideband differential external IQ inputs	•	
DIQ	Differential IQ outputs	•	
M10	Baseband generator memory upgrade to 1024 MSa	•	•
N7608C PathWave Signal Generation for Custom Modulations		•	•



## EMC Bundles

### EMI Receiver Bundles



Choose either an MXE or PXE EMI receiver paired with time domain scan capability for fast EMI measurements

Option	Description	N9038B-030	N9038B-080	N9038B-260	N9038B-440
503	Frequency range, 3 Hz to 3.6 GHz	•			
508	Frequency range, 3 Hz to 8.4 GHz		•		
526	Frequency range, 3 Hz to 26.5 GHz			•	
544	Frequency range, 3 Hz to 44 GHz				•
P03	Preamplifier, 3.6 GHz	•			
P08	Preamplifier, 8.4 GHz		•		
P26	Preamplifier, 26.5 GHz			•	
P44	Preamplifier, 44 GHz				•
PFR	Precision Frequency Reference	•	•	•	•
N90EMTDSB Time Domain Scan		•	•	•	•

Option	Description	N9048B-031	N9048B-081	N9048B-261	N9048B-441
503	Frequency range, 1 Hz to 3.6 GHz	•			
508	Frequency range, 1 Hz to 8.4 GHz		•		
526	Frequency range, 1 Hz to 26.5 GHz			•	
544	Frequency range, 1 Hz to 44 GHz				•
P03	Preamplifier, 3.6 GHz	•			
P08	Preamplifier, 8.4 GHz		•		
P26	Preamplifier, 26.5 GHz			•	
P44	Preamplifier, 44 GHz				•
PFR	Precision Frequency Reference	•	•	•	•
WF1	Wideband Digital IF	•	•	•	•
N9048TDSB Time Domain Scan		•	•	•	•
N9048WT1B Wideband Time Domain Scan, Basic Detection		•	•	•	•



Option	Description	N9048B-032	N9048B-082	N9048B-262	N9048B-442
503	Frequency range, 1 Hz to 3.6 GHz	•			
508	Frequency range, 1 Hz to 8.4 GHz		•		
526	Frequency range, 1 Hz to 26.5 GHz			•	
544	Frequency range, 1 Hz to 44 GHz				•
P03	Preamplifier, 3.6 GHz	•			
P08	Preamplifier, 8.4 GHz		•		
P26	Preamplifier, 26.5 GHz			•	
P44	Preamplifier, 44 GHz				•
PFR	Precision Frequency Reference	•	•	•	•
WF1	Wideband Digital IF	•	•	•	•
N9048TDSB Time Domain Scan		•	•	•	•
N9048WT2B Wideband Time Domain Scan, Optimum Detection		•	•	•	•

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