

# Ultra-Wideband Recording Solution

High-quality recording system with X-Series analyzers

## Introduction

The Keysight S7961A and S7962A Ultra-Wideband Streaming and Recording Solution, based on the new N9032B and N9042B X-Series signal analyzers, offers a gapless RF recording capability with an instantaneous bandwidth of 2 GHz. These features make the ultra-wideband recording solution the ideal choice to capture and characterize wideband radar, and communication systems, or collect and monitor a complex spectrum environment.

This configuration guide will help you determine which performance options, equipment, and accessories to include with your new recording system.



# Included in Base Solution

Standard equipment and software come with the solution and do not need to be ordered separately.

Ultra-wideband recording solutions include:



- HP Z8 G5 Workstation
- PCIe bridge card, Host Adapter, and cable
- PCIe FPGA
- QSFP+ adapters
- ODI cables
- ODI to QSFP breakout cable
- RJ45 cable
- M9019A PXIe chassis: 18-slot, 3U, 24 GB/s
- M9038A PXIe high-performance embedded controller
- Y1213A PXI EMC filler panel kit
- N6880AR02 Record and Playback Manager (RPM) software
- XSA Options: pre-amp, analysis bandwidth (equal to streaming bandwidth selected)

Custom system configurations are possible. If the specified options don't meet your specific test environment needs, contact your local Keysight representative to discuss options.

## Configure your Recording Solution

This step-by-step process will help you configure your new Ultra-Wideband Streaming and Recording Solution. Tailor the performance to meet your requirements.

### Step 1. Select X-Series analyzer and frequency range

Analyzer Model Number	Solution Model Number	Frequency Range Options
N9032B PXA 	S7961A	8.4 GHz or 26.5 GHz
N9042B UXA 	S7962A	26.5 GHz or 50 GHz

## Step 2. Select frequency range

Description	Option Number	Additional Information
8 GHz	-008	Only available on S7961A
26.5 GHz	-026	Available for S7961A and S7962A
50 GHz	-050	Only available on S7962A

## Step 3. Select streaming bandwidth and storage capacity


Description	Option Number	Additional Information
1 GHz streaming 32 TB	-012	~100 minutes storage at 1 GHz
64 TB	-014	~200 minutes storage at 1 GHz
2 GHz streaming 64 TB	-024	~100 minutes storage at 2 GHz
128 TB	-028	~200 minutes storage at 2 GHz

# Confidently Covered by Keysight Services

Prevent delays caused by technical questions and reduce system downtime due to instrument maintenance and repairs with Keysight Services. Keysight Services are here to support your test needs with expert technical support, instrument repair and calibration, software support, training, alternative acquisition program options, and more.

A KeysightCare agreement provides dedicated, proactive support through a single point of contact for instruments, software, and solutions. KeysightCare covers an extensive group of instruments, application software, and solutions and ensures optimal uptime, faster response, faster access to experts, and faster resolution.

## Keysight Services

Offering	Benefits
<b>KeysightCare</b> 	KeysightCare provides elevated support for Keysight instruments and software, with access to technical support experts that respond within a specified time and ensure committed repair and calibration turnaround times (TAT). KeysightCare offers multiple service agreement tiers, including KeysightCare Assured, Enhanced, and Application Software Support. See the <a href="#">KeysightCare data sheet</a> for details.
KeysightCare Assured	KeysightCare Assured goes beyond basic warranty with repair services that include committed TAT and unlimited access to technical experts.
KeysightCare Enhanced	KeysightCare Enhanced includes all the benefits of KeysightCare Assured plus Keysight's accurate and reliable <a href="#">Calibration Services</a> , accelerated, and committed TAT, and technical response.
<b>Keysight Support Portal &amp; Knowledge Center</b>	All KeysightCare tiers include access to the Keysight Support Portal where you can manage support and service resources related to your assets such as service requests, and status, or browse the Knowledge Center.
<b>Education Services</b>	Build confidence and gain new skills to make accurate measurements, with flexible Education Services developed by Keysight experts. Including Start-up Assistance.
<b>Alternative acquisition options</b>	
<b>KeysightAccess</b>	Reduce budget challenges with a leased-based subscription service, that offers low monthly payments, enabling you to get the instruments, software, and technical support you want for your test needs.

## Recommended services

Maximize your test system up-time by securing technical support, repair, and calibration services with committed response and turnaround times. 1-year KeysightCare Assured is included in every new instrument purchase. Obtain multi-year KeysightCare upfront to eliminate the need for lengthy and tedious paperwork and yearly requests for maintenance budget. Plus, you benefit from secured service for 2, 3, or 5 years.

Service	Function
<b>KeysightCare Enhanced*</b>	<b>Includes tech support, warranty and calibration</b>
R-55B-001-1	KeysightCare Enhanced – Upgrade 1 year
R-55B-001-2	KeysightCare Enhanced – Extend to 2 years
R-55B-001-3	KeysightCare Enhanced – Extend to 3 years (Recommended)
R-55B-001-5	KeysightCare Enhanced – Extend to 5 years (Recommended)
<b>KeysightCare Assured</b>	<b>Includes tech support and warranty</b>
R-55A-001-2	KeysightCare Assured – Extend to 2 years
R-55A-001-3	KeysightCare Assured – Extend to 3 years
R-55A-001-5	KeysightCare Assured – Extend to 5 years
<b>Start-Up Assistance</b>	
PS-S40-01	Included – instrument fundamentals and operations starter
PS-S40-04	Recommended – instrument fundamentals and operations starter
PS-S40-02	Optional, technology & measurement science standard learning



Keysight enables innovators to push the boundaries of engineering by quickly solving design, emulation, and test challenges to create the best product experiences. Start your innovation journey at [www.keysight.com](http://www.keysight.com).

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