# Keysight

# M9290A CXA-m PXIe Signal Analyzer

# Product Fact Sheet

### Industries and Applications

- Military maintenance applications
- RF and microwave signal analysis up to 26.5 GHz
- Testing of components, devices, boards and systems
- Characterization of military and public-safety radios
- Testing of radios used in avionics, satellites, radar and electronic-warfare systems

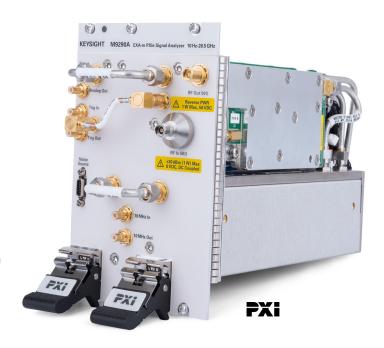
### **Product Description**

In test system development, one of your crucial requirements is doing more in less space—but this often means tradeoffs between footprint and precision in signal analysis. That is, until now: we've expanded the X-Series with the CXA-m, a PXIe signal analyzer that offers fully specified performance up to 26.5 GHz. A rich set of measurement capabilities, including swept and FFT modes in the same instrument, accelerates tasks such as the identification of spurious signals and harmonics.

The CXA-m also reduces time and effort in system development. For example, it ensures seamless transitions between R&D, manufacturing and maintenance by providing compatibility with code written for Keysight's X-Series signal analyzers and ESA spectrum analyzers. Ready-to-use drivers and SCPI commands simplify evaluation and programming.

#### Main Features and Benefits

Product features	Your benefit
Choice of four models that	Deploy a smaller microwave
range from 10 Hz to 3, 7.5,	footprint with a four-slot
13.6 or 26.5 GHz	solution that provides best-in-
	class performance in key areas
Operate in swept or FFT	Optimize the balance between
_mode	speed, sensitivity and accuracy
Proven X-Series	See consistent results across
measurement science	your product lifecycle
Ready-to-use drivers and	Easily access a rich set of
SCPI commands	measurement capabilities and
	create effective automated tests
X-Series attributes including	Shorten the learning curve and
familiar interface and code	simplify the transition from box
compatibility	instruments to PXI



#### Specifications and Characteristics

10 Hz to 3, 7.5, 13.6 or 26.5 GHz
-163 dBm at 1 GHz
-110 dBc/Hz at 1 GHz, 10 kHz
offset
+17 dBm
10 or 25 MHz
Four-slot module

Chassis slot compatibility: PXIe Hybrid, PXIe



#### Software Information

Operating system	Microsoft Windows 7 (64-bit)
Standard-compliant	IVI-COM, IVI-C, LabVIEW, MATLAB
drivers	
Application	Visual Studio (C/C++, C#, VB.NET),
development	LabVIEW, LabWindows CVI, MATLAB,
environments (ADEs)	VEE
Keysight IO Libraries	Includes: VISA Libraries, Keysight
(version 16.3 or newer)	Connection Expert, IO Monitor
Keysight command	Instrument control for SCPI or IVI-COM
expert	drivers
X-Series	W9063A analog demodulation
measurement	W9068A phase noise
application	W9069A noise figure
	W9062A SCPI language compatibility
	N6171A MATLAB software
	N9071A GSM/EDGE/Evo
	N9080B LTE/LTE-Advanced FDD
	N9082B LTE/LTE-Advanced TDD
	N9073A W-CDMA/HSPA+
	N9081A Bluetooth®

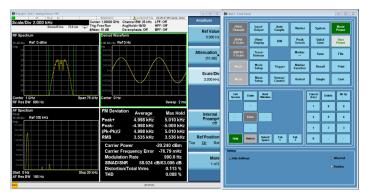


Figure 1. The CXA-m utilizes the familiar X-Series interface through a soft front panel

# Ordering Information

Model	Description	
M9290A	CXA-m PXIe signal analyzer: 10 Hz to 3, 7.5, 13.6 or 26.5 GHz	
	Includes software example programs and	
	product information on CD	
Typical configuration		
M9290A-F03	Frequency range: 10 Hz to 3.0 GHz	
M9290A-P03	Preamplifier, 3 GHz	
M9290A-PAA	Precision amplitude accuracy	
M9290A-PFR	Precision frequency reference	
Configurable options		
Frequency		
M9290A-F03	Frequency range, 10 Hz to 3.0 GHz	
M9290A-F07	Frequency range, 10 Hz to 7.5 GHz	
M9290A-F13	Frequency range, 10 Hz to 13.6 GHz	
M9290A-F26	Frequency range, 10 Hz to 26.5 GHz	
Preamplifier		
M9290A-P03	Preamplifier, 3.0 GHz	
M9290A-P07	Preamplifier, 7.5 GHz	
M9290A-P13	Preamplifier, 13.6 GHz	
M9290A-P26	Preamplifier, 26.5 GHz	
Precision		
M9290A-PAA	Precision amplitude accuracy	
M9290A-PFR	Precision frequency reference	
Attenuator		
M9290A-FSA	Fine-resolution step attenuator, 7.5 GHz	
Bandwidth		
M9290A-B25	Analysis bandwidth, 25 MHz	
EMC		
M9290A-EMC	Basic EMC functionality	
Display		
M9290A-EDP	Enhanced display package	

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