

# Keysight Technologies

## M9300A PXIe Frequency Reference

### Industries and Applications

- Cellular picocell and femtocell test
- Handset component test
- Military radio test
- Public safety and homeland security radio test
- Wireless device test
- Wireless transceiver design validation
- WLAN production test

### Product Description

The M9300A PXIe frequency reference is a PXIe compatible compact modular instrument that can be used with the Keysight Technologies, Inc. M9301A synthesizer, M9310A source output and M9311A modulator to create the world's fastest vector signal generator, the M9381A.

It can also be used with the M9301A synthesizer and M9310A source output to create a CW source – the M9380A – or as the 10 MHz or 100 MHz reference with other PXI solutions.



*Challenge the Boundaries of Test  
Keysight Modular Products*

### Main Features and Benefits

| Product features  | Your benefit   |
|---|--|
| Five 100 MHz outputs  | Use a common module with multiple Vector signal generators           |
| Locks to another reference with a value from 1 to 110 MHz.    | Flexible module synchronization                                      |
| One-step software install and integrated VSG soft front panel | Reduce startup time  |
| Multiple programmatic interfaces                              | Easy integration into test environments and reduced development time |
| Calibrated Core Exchange Strategy                             | Fast repair and turn-around time                                     |

### Specifications and Characteristics

| Hardware        |   |
|-----------------|---|
| Outputs         | <ul style="list-style-type: none"> <li>- Five 100 MHz outputs</li> <li>- One 10 MHz output</li> <li>- Internal 10 MHz OCXO timebase output</li> </ul> |
| 100 MHz Output: |   |
| Amplitude       | ≥ 10 dBm  |
| Connectors      | 5 SMB snap-on   |
| Impedance       | 50 Ω, (nominal)   |
| 10 MHz Output:  |   |
| Amplitude       | 9.5 dBm, (nominal)  |
| Connectors      | 1 SMB snap-on   |
| Impedance       | 50 Ω, (nominal)   |
| OCXO Output:    |   |
| Amplitude       | 11.5 dBm, (nominal)   |
| Connectors      | 1 SMB snap-on   |
| Impedance       | 50 Ω, (nominal)   |
| Size            | 1-slot  |

## Software Information

The M9300 PXIe frequency reference is supplied with a comprehensive portfolio of module drivers, documentation, examples, and software tools to help you quickly develop test systems with your software platform of choice.

A soft front panel interface is provided to monitor and control the M9300A.

|  |   |
|--|---|
| Supported Operating systems                          | Microsoft Windows XP (32-bit)<br>Microsoft Windows Vista SP1 and SP2 (32/64-bit)<br>Microsoft Windows 7 (32/64-bit) |
| Standard compliant drivers                           | IVI-COM, IVI-C, LabVIEW, MATLAB   |
| Supported application development environments (ADE) | VisualStudio (C/C++, C#, VB.NET), LabVIEW, LabWindows/CVI, MATLAB, VEE  |
| Keysight IO Libraries (version 16.2 or newer)        | Includes: VISA Libraries, Keysight Connection Expert, IO Monitor  |

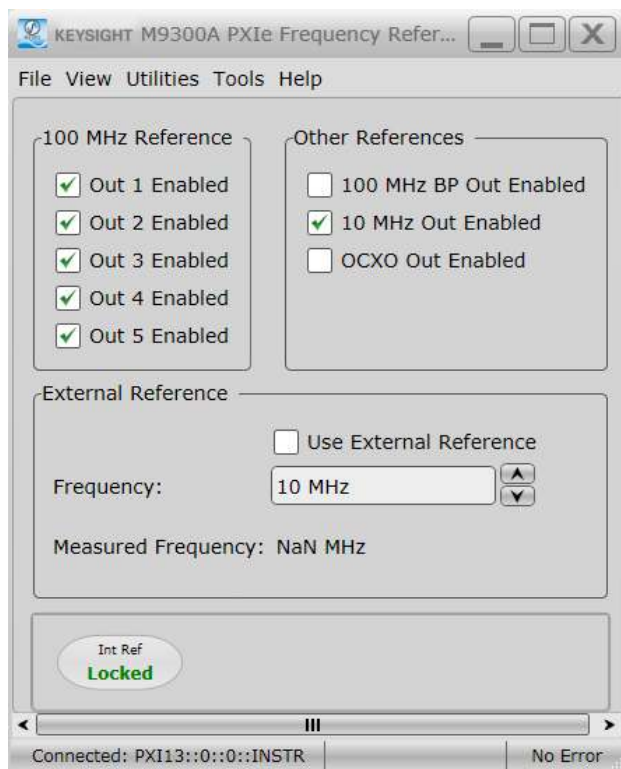


Figure 1. Keysight M9300A soft front panel interface

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## Ordering Information

| Model  | Description  |
|--------|--|
| M9300A | PXIe Frequency Reference<br>Includes:<br>Software, example programs and product information on CD<br>Return to Keysight Warranty—3 Years |

| Base Configuration |                                       |
|--------------------|---------------------------------------|
| M9381A             | PXIe Vector Signal Generator          |
| M9380A             | PXIe CW Source                        |
| M9018A             | 18-slot PXIe Chassis                  |
| M9036A             | PXIe Embedded Controller <sup>1</sup> |

| Advantage Services: Calibration and Warranty  |  |
|---|--|
| <b>Keysight Advantage Services is committed to your success through your equipment's lifetime</b> |  |
| R-51B-001-5C  | Return to Keysight Warranty - 5 years          |
| R1280X  | Express Warranty—5 day turnaround <sup>2</sup> |

<sup>1</sup> PC desktop and PC laptop controllers are also available. Please see the M9381A Configuration Guide (literature no. 5991-0897EN) for more information.

<sup>2</sup> Express warranty is available in the US, Japan, China and many EU countries.

[www.keysight.com/find/modular](http://www.keysight.com/find/modular)

[www.keysight.com/find/m9300a](http://www.keysight.com/find/m9300a)

USA: (800) 829-4444

For more information on Keysight Technologies' products, applications or services, please contact your local Keysight office. The complete list is available at: [www.keysight.com/find/contactus](http://www.keysight.com/find/contactus)



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