

Technical Support  
Knowledge Center Open

Can the 816x mainframes be  
controlled via GPIB?

# Notices

© Keysight Technologies Incorporated, 2002-2020

1400 Fountaingrove Pkwy., Santa Rosa, CA 95403-1738, United States All rights reserved.

No part of this documentation may be reproduced in any form or by any means (including electronic storage and retrieval or translation into a foreign language) without prior agreement and written consent from Keysight Technologies, Inc. as governed by United States and international copyright laws.

## Restricted Rights Legend

If software is for use in the performance of a U.S. Government prime contract or subcontract, Software is delivered and licensed as "Commercial computer software" as defined in DFAR 252.227-7014 (June 1995), or as a "commercial item" as defined in FAR 2.101(a) or as "Restricted computer software" as defined in FAR 52.227-19 (June 1987) or any equivalent agency regulation or contract clause.

Use, duplication or disclosure of Software is subject to Keysight Technologies' standard commercial license terms, and non-DOD Departments and Agencies of the U.S. Government will receive no greater than Restricted Rights as defined in FAR 52.227-19(c)(1-2) (June 1987). U.S. Government users will receive no greater than Limited Rights as defined in FAR 52.227-14 (June 1987) or DFAR 252.227-7015 (b)(2) (November 1995), as applicable in any technical data.

**Portions of this software are licensed by third parties including open source terms and conditions.**

**For detail information on third party licenses, see [Notice](#).**

## Contents

Can the 816x mainframes be controlled via GPIB?

Can the 816x mainframes be controlled via GPIB?

Yes, the 816x mainframes offer complete GPIB control using either SCPI commands or the VXI PNP drivers. The VXI PNP drivers will allow the user to control the mainframe in the following programming languages: Keysight VEE, Microsoft C, Microsoft Visual Basic, NI Labview. A URL for the VXI PNP drivers is below. [Plug&Play Instrument Drivers](#)

Keysight Technologies has also recently introduced the Photonics Foundation Library. These drivers provide advanced measurement capability for swept wavelength polarization dependant loss and insertion loss measurements.

The logging and stability applications both acquire a user defined number of power readings.

The logging application requires the user to input: A) number of data points, B) averaging time. Consequently, the total time for the logging application is the number of samples multiplied by the averaging time.

The stability application requires the user to input: A) number of measurements, B) averaging time, and C) total measurement time. The mainframe will compute a period time between measurements to achieve the user specified total measurement time.

