

Agilent E6618A Multiport Adapter

For use with Agilent E6630A Wireless Connectivity Test Set

Security Features and Document of Volatility



Notices

© Agilent Technologies, Inc. 2013

No part of this manual 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 Agilent Technologies, Inc. as governed by United States and international copyright laws.

Trademark Acknowledgements

Microsoft® is a U.S. registered trademark of Microsoft Corporation.

Windows® and MS Windows® are U.S. registered trademarks of Microsoft Corporation.

Adobe Acrobat® and Reader® are U.S. registered trademarks of Adobe Systems Incorporated.

Java™ is a U.S. trademark of Sun Microsystems, Inc.

MATLAB® is a U.S. registered trademark of Math Works, Inc.

Norton Ghost[™] is a U.S. trademark of Symantec Corporation.

Wikipedia® is a registered trademark of the Wikimedia Foundation.

Manual Part Number

E6618-90005

Print Date

August, 2013

Printed in USA

Agilent Technologies Inc. 1400 Fountaingrove Parkway Santa Rosa, CA 95403

Warranty

The material contained in this document is provided "as is," and is subject to being changed, without notice, in future editions. Further, to the maximum extent permitted by applicable law, Agilent disclaims all warranties, either express or implied, with regard to this manual and any information contained herein, including but not limited to the implied warranties of merchantability and fitness for a particular purpose. Agilent shall not be liable for errors or for incidental or consequential damages in connection with the furnishing, use, or performance of this document or of any information contained herein. Should Agilent and the user have a separate written agreement with warranty terms covering the material in this document that conflict with these terms, the warranty terms in the separate agreement shall control.

Technology Licenses

The hardware and/or software described in this document are furnished under a license and may be used or copied only in accordance with the terms of such license.

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 Agilent 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.

Safety Notices

CAUTION

A **CAUTION** notice denotes a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in damage to the product or loss of important data. Do not proceed beyond a CAUTION notice until the indicated conditions are fully understood and met.

WARNING

A **WARNING** notice denotes a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in personal injury or death. Do not proceed beyond a WARNING notice until the indicated conditions are fully understood and met.

Warranty

This Agilent technologies instrument product is warranted against defects in material and workmanship for a period of one year from the date of shipment. During the warranty period, Agilent Technologies will, at its option, either repair or replace products that prove to be defective.

For warranty service or repair, this product must be returned to a service facility designated by Agilent Technologies. Buyer shall prepay shipping charges to Agilent Technologies, and Agilent Technologies shall pay shipping charges to return the product to Buyer. For products returned to Agilent Technologies from another country, Buyer shall pay all shipping charges, duties, and taxes.

Where to Find the Latest Information

Documentation is updated periodically. For the latest information about these products, including instrument software upgrades, application information, and product information, see the following URLs:

http://www.agilent.com/find/E6618A

To receive the latest updates by email, subscribe to Agilent Email Updates:

http://www.agilent.com/find/emailupdates

Information on preventing instrument damage can be found at:

http://www.agilent.com/find/tips

Is your product software up-to-date?

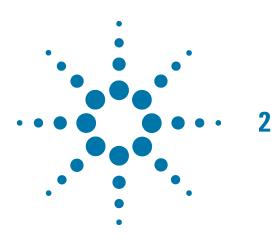
Periodically, Agilent releases software updates to fix known defects and incorporate product enhancements. To check for software updates for your product, go to the Agilent Technical Support website at:

http://www.agilent.com/find/ext_software

1 Table of Contents

2. Contacting Agilent Sales and Service Offices				
3. Products Covered by this Document	9			
I. Security Terms and Definitions	1			
5. Instrument Memory & Document of Volatility	3 4 5			
δ . Memory Clearing, Sanitization and/or Removal Procedures \ldots \ldots \ldots \ldots 1	7			
7. User and Remote Interface Security Measures1	9			
Appendix A. References	1			

Contents



Contacting Agilent Sales and Service Offices

Assistance with test and measurement needs, and information to help you find a local Agilent office, is available via the internet at, http://www.agilent.com/find/assist. If you do not have internet access, please contact your designated Agilent representative.

NOTE

In any correspondence or telephone conversation, refer to the instrument by its model number and full serial number. With this information, the Agilent representative can determine whether your unit is still within its warranty period.

Contacting Agilent Sales and Service Offices



Products Covered by this Document

Product Name	Model Numbers
Multiport Adapter (for use with E6630A Wireless Connectivity Test Set	E6618A

This document describes instrument memory types and security features. It provides a statement regarding the volatility of all memory types, and specifies the steps required to declassify an instrument through memory clearing, sanitization, or removal.

For additional information, go to:

http://www.agilent.com/find/security

IMPORTANTBe sure that all information stored by the user in the instrument that needs to be saved
is properly backed up before attempting to clear any of the instrument memory. Agilent
Technologies cannot be held responsible for any lost files or data resulting from the
clearing of memory.

Be sure to read this document entirely before proceeding with any file deletion or memory clearing.

Products Covered by this Document



Security Terms and Definitions

Term	Definition
Clearing	As defined in Section 8-301a of DoD 5220.22-M, "National Industrial Security Program Operating Manual (NISPOM)", clearing is the process of eradicating the data on media before reusing the media so that the data can no longer be retrieved using the standard interfaces on the instrument. Clearing is typically used when the instrument is to remain in an environment with an acceptable level of protection.
Instrument Declassification	A term that refers to procedures that must be undertaken before an instrument can be removed from a secure environment, such as is the case when the instrument is returned for calibration. Declassification procedures include memory sanitization or memory removal, or both. Agilent declassification procedures are designed to meet the requirements specified in DoD 5220.22-M, "National Industrial Security Program Operating Manual (NISPOM)", Chapter 8.
Sanitization	As defined in Section 8-301b of DoD 5220.22-M, "National Industrial Security Program Operating Manual (NISPOM)", sanitization is the process of removing or eradicating stored data so that the data cannot be recovered using any known technology. Instrument sanitization is typically required when an instrument is moved from a secure to a non-secure environment, such as when it is returned to the factory for calibration.
	Agilent memory sanitization procedures are designed for customers who need to meet the requirements specified by the US Defense Security Service (DSS). These requirements are specified in the "Clearing and Sanitization Matrix" in Appendix 0 of the ODAA Process Guide for C&A of Classified Systems under NISPOM.
Secure Erase	Secure Erase is a term that is used to refer to either the clearing or sanitization features of Agilent instruments.

Security Terms and Definitions



This chapter summarizes all memory types in the instrument.

The descriptions are divided between:

- 1. Non-Volatile Memory,
- 2. Volatile Memory.

Non-Volatile Memory

This section contains information on the memory components available in your instrument.

The table provides details of the size of each memory component, its type, how it is used, its location, volatility, and the sanitization procedure.

NOTE	The instrument contains no user-accessible non-volatile memory, except for the Drive described in Item 7 of Table 5-1. For this reason, as indicated in the tables no sanitization procedure is required for any memory component except the Dis				e tables below	
Table 5-1	Sur	nmary	of Non-Volatile instrume	nt memory		
Memory Component, Type and Size	Writable During Normal Operation?	Data Retained When Powered Off?	Purpose/Contents	Data Input Method	Location in Instrument and Remarks	Sanitization Procedure
1. Config & Cal Memory	No	Yes	Header EEPROM used to identify the E6618A with a USB ID.	Programmed before installation.	PC board E6618-63001	Turn off power
1 kbit					Contains no user data.	
2. Config (EEPROM)	No	Yes	s Header EEPROM used to identify the assembly.	Programmed before installation.	PC board E6618-63001	None.
64 Mbit					Contains no user data.	
3. Config Memory	No	Yes	Contains measurement and	Programmed before	PC board E6618-63001	None.
(Flash)			control software, which is preloaded	installation.	Contains no	
8 Mbit			into FPGA during instrument power-up.		user data.	
4. Cal Memory (EEPROM)	No	lo Yes	Contains RFIO asembly unique	Programmed by the factory or	PC board E6618-63001	None.
3 X 64 Mbit	t	calibration data to achieve accuracy and specifications.	service center.	Contains no user data.		

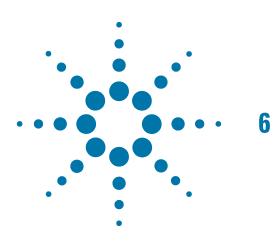
Volatile Memory

The volatile memory in the instrument does not have battery backup. It does not retain any information when AC power is removed.

Removing power from this memory meets the memory sanitization requirements specified in the "Clearing and Sanitization Matrix" in Appendix 0 of the ODAA Process Guide for C&A of Classified Systems under NISPOM.

Table 5-2	Summary of Volatile Instrument Memory				
Memory Type and Size	Writable During Normal Operation? Data Retained When	Purpose/Contents	Data Input Method	Location in Instrument and Remarks	Sanitization Procedure
1. Block RAM on FPGA	Yes N	lo Contains measurement sequence states.	Programmed by firmware; not user-accesible.	PC board E6618-63001 Contains no user data.	Turn off instrument power.

Instrument Memory & Document of Volatility **Volatile Memory**



Memory Clearing, Sanitization and/or Removal Procedures

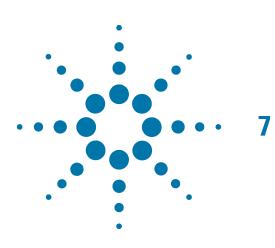
This section explains how to clear, sanitize, and remove memory from your instrument, for all types of non-volatile memory that can be written to during normal instrument operation.

Table 6-1Disk Drive

Note The E6618A does not include a disk drive.

Table 6-2 El	EPROM Memories
Description and purpose	Used to identify the assemblies (header info) and store option configuration data and calibration data. This memory cannot be written to during instrument operation.
Size	1 kbit to 64 Mbit
Memory clearing	Not applicable. This memory does not contain user information and is not accessible by the user.
Memory sanitization	Not applicable. This memory does not contain user information and is not accessible by the user.
Memory removal	Not applicable.
Write protecting	Not applicable.
Memory validation	Not applicable.
Remarks	These memories are only writable by factory/service center software, or upgrade installation software.

Table 6-3	Flash Memories
Description and purpose	Used to hold factory software for FPGAs. The software is loaded when the instrument powers up. This memory cannot be written to during instrument operation.
Size	8 Mbit
Memory clearing	Not applicable. This memory does not contain user information and is not accessible by the user.
Memory sanitizatio	n Not applicable. This memory does not contain user information and is not accessible by the user.
Memory removal	Not applicable.
Write protecting	Not applicable.
Memory validation	Not applicable.
Remarks	These memories are only writable by factory/service center software, or upgrade installation software.



User and Remote Interface Security Measures

The E6618A Multiport Adapter does not have a stand-alone remote interface; instead, it is operated as a USB accessory to the E6630A Wireless Connectivity Test Set, and is controlled through the E6630A, not independently. No remote interface security measures apply to the E6618A specifically. Interface information and security information applicable to the E6630A is available at:

http://www.agilent.com/find/E6630A_manuals

User and Remote Interface Security Measures



: References

 DoD 5220.22-M, "National Industrial Security Program Operating Manual (NISPOM)" United States Department of Defense. Revised February 28, 2006. May be downloaded in Acrobat (PDF) format from: http://www.dss.mil/isp/fac_clear/download_nispom.html
ODAA Process Cuido for CSA of Classified Sustame under NISPOM

2. ODAA Process Guide for C&A of Classified Systems under NISPOM

Defense Security Service.

DSS-cleared industries may request a copy of this document via email, by following the instructions at:

http://www.dss.mil/isp/odaa/request.html

3. Agilent E6618A Multiport Adapter: Getting Started Guide

Agilent Technologies Inc. 2013. Part Number: E6618-90001 (subject to revision).

A printed copy of this document is supplied with each instrument.

It is also available in Acrobat (PDF) form:

• via download from:

http://www.agilent.com/find/e6618a

4. Microsoft Knowledge Base Article ID: 967715

"How to disable the Autorun functionality in Windows": may be viewed at:

http://support.microsoft.com/kb/967715

Note that a second article, at: http://support.microsoft.com/kb/953252, "How to correct 'disable Autorun registry key' enforcement in Windows", redirects to article ID 967715.