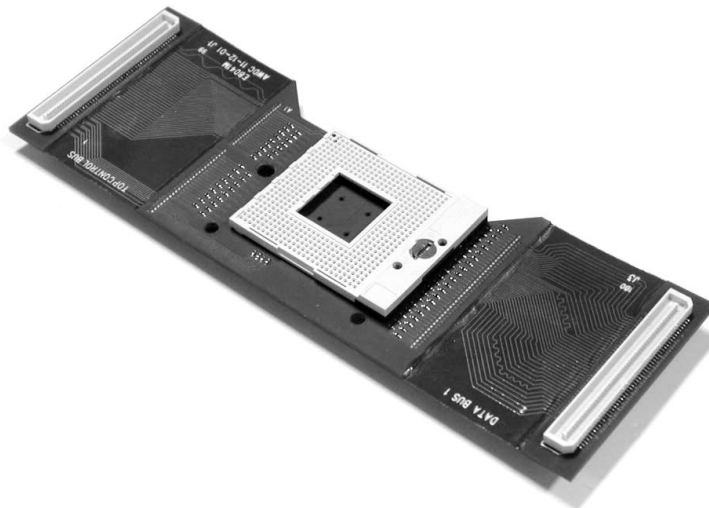


Agilent Technologies
E8041M Interposer
for the Intel® Pentium® M Processor

Interposer Installation Quick Start

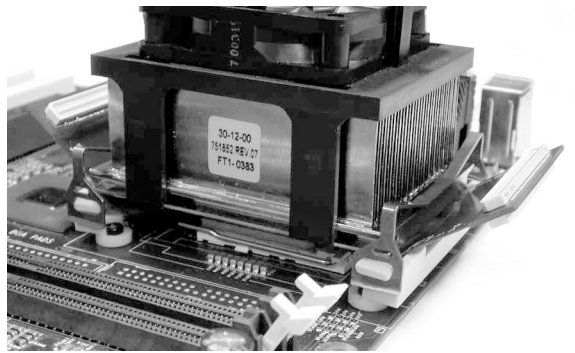


This guide shows you how to install the interposer between the microprocessor and the socket on the system board.

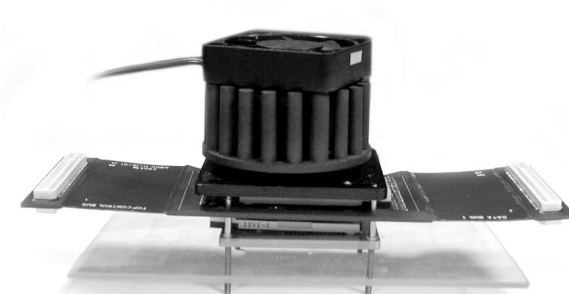
Refer to the *User's Guide* for more information.

This interposer can be used with two retention mechanisms:

ETV-2 (Desktop)



Mobile Chip Cooler



Protecting the Interposer

Here is a summary of precautions to take to avoid damaging the interposer:

DO minimize the removal of the analysis probe cables, once they are connected to the interposer.

DO minimize the removal of the interposer, once it is connected to the microprocessor and target system.

DO exercise patience and care when working with the interposer.

DO use ESD precautions.

DO remove power from the target system and analysis probe before making attachments.

DO protect the pins from damage by covering them with the pin protector when the interposer is not in use.

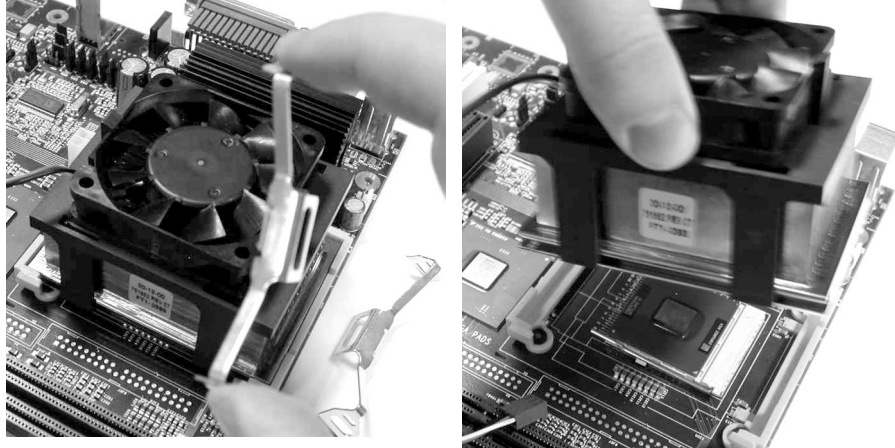
DO NOT insert any kind of tool between the interposer and the microprocessor, except as described in this manual.

DO NOT kink the analysis probe cables.

DO NOT pull on or twist the "wings" of the interposer.

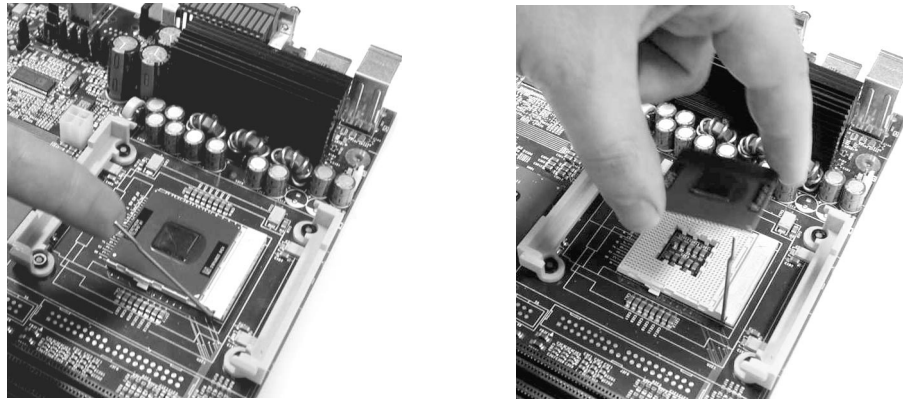
Installing the Interposer with the ETV-2 Retention Mechanism

- 1 Remove the heatsink from the microprocessor.



Put the heatsink spring clips aside.

- 2 Remove the microprocessor from the target system.

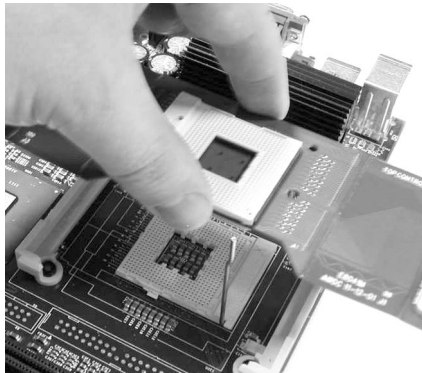


3 Remove the pin protector from the interposer.

Keep the pin protector. You will need it to prevent damage to the interposer whenever the interposer is not plugged into the target system.



4 Align the interposer over the socket on the target system.

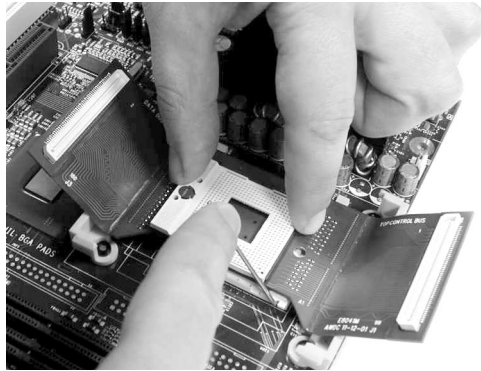


You may need to bend the flexible "wings" of the interposer upward.

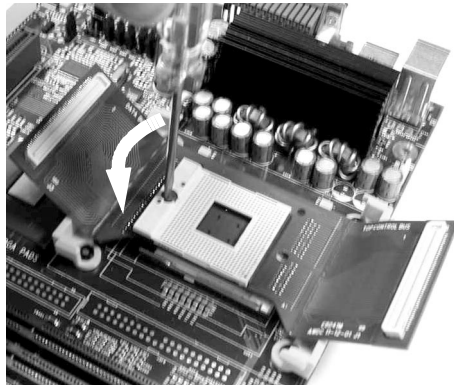
Note how the socket on the interposer is rotated 180° relative to the socket on the target system.

This is a good time to check that the socket on the target system is still open. If necessary, lift the lever of the ZIF socket on the target system.

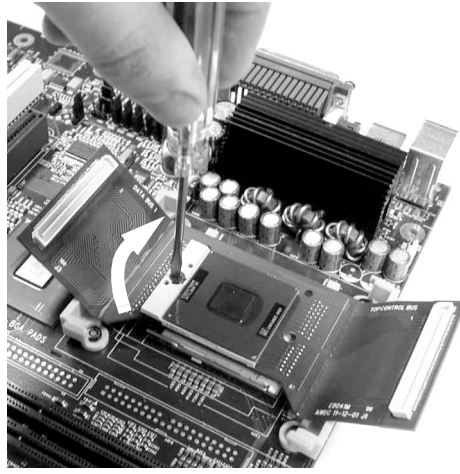
- 5 Gently wiggle the assembly until you feel the pins fall into the holes of the socket.
- 6 With one hand, hold the interposer flat against the socket. With the other hand, close the lever of the socket.



- 7 Open the socket on the interposer.



- 8 Align the processor over the socket on the interposer. Gently wiggle the assembly until you feel the pins fall into the holes. Visually check that the bottom of the processor module is flush with the top of the socket on the interposer, then close the socket.

**CAUTION**

The processor should be oriented the same way that it was originally oriented on the target system. Note that the orientation of the processor with respect to the lever on the socket is opposite from the target system.

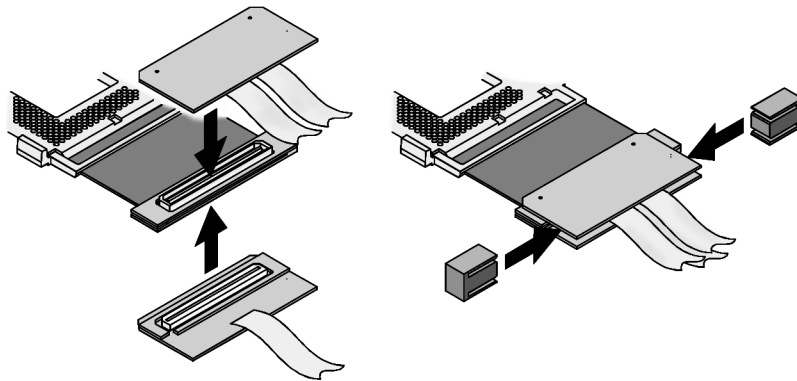
- 9** Re-install the heatsink, using the taller spring clips supplied with the interposer.



- 10** Connect the analysis probe cables to the interposer.

Refer to the silkscreened labels on the interposer and on the cable paddles.

Install the supplied clips to keep the paddles on the end of the analysis probe cables from pulling apart.



- 11** Connect the analysis probe to the logic analyzer.

Connect the pod cables to the connectors on the analysis probe as shown on the back of the analysis probe.

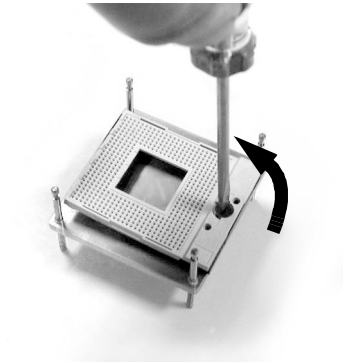
Installing the Interposer with the Mobile Chip Cooler Retention Mechanism

- 1** Remove the heatsink from the microprocessor.
- 2** Remove the microprocessor from the target system.
- 3** Remove the pin protector from the interposer.

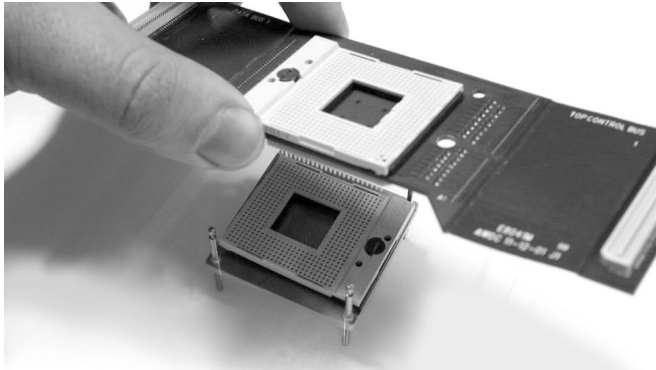
Keep the pin protector. You will need it to prevent damage to the interposer whenever the interposer is not plugged into the target system.



- 4** Check that the socket on the target system is open.



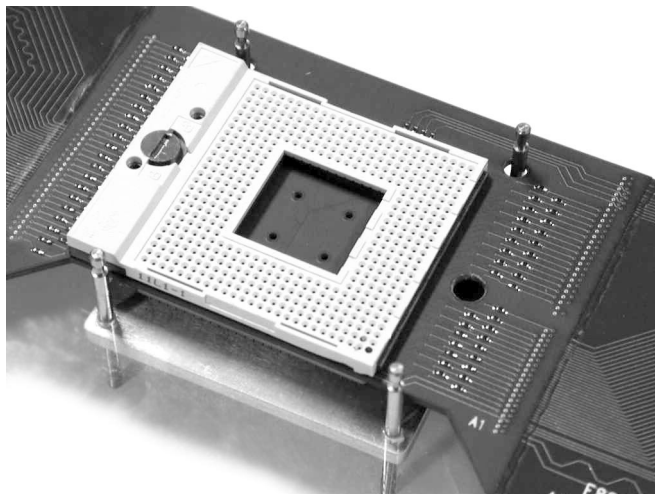
- 5 Align the interposer over the socket on the target system.



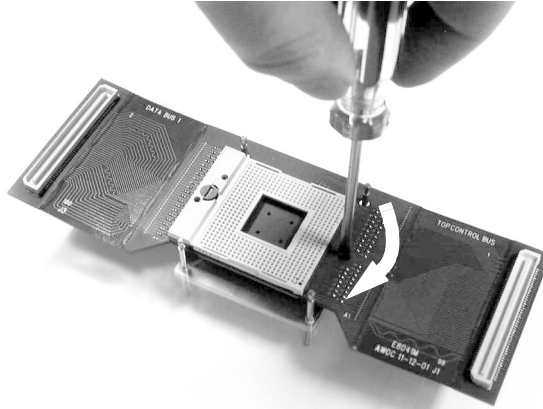
You may need to bend the flexible "wings" of the interposer upward.

Note how the socket on the interposer is rotated 180° relative to the socket on the target system.

- 6 Gently wiggle the assembly until you feel the pins fall into the holes of the socket.

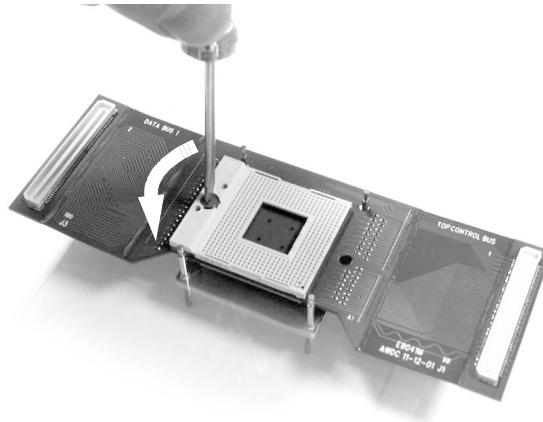


7 Close the the socket on the target system.

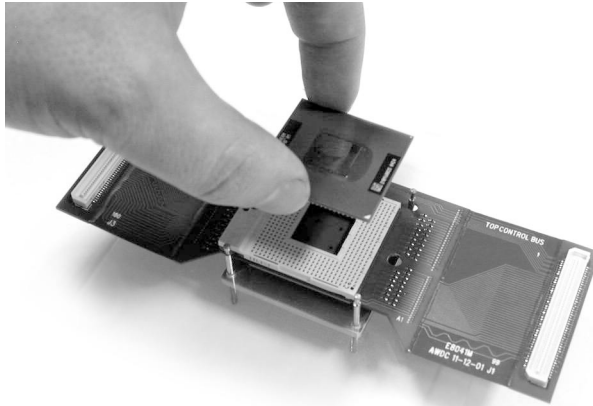


Insert a narrow, flat blade screw driver through the hole in the interposer.

8 Open the socket on the interposer.

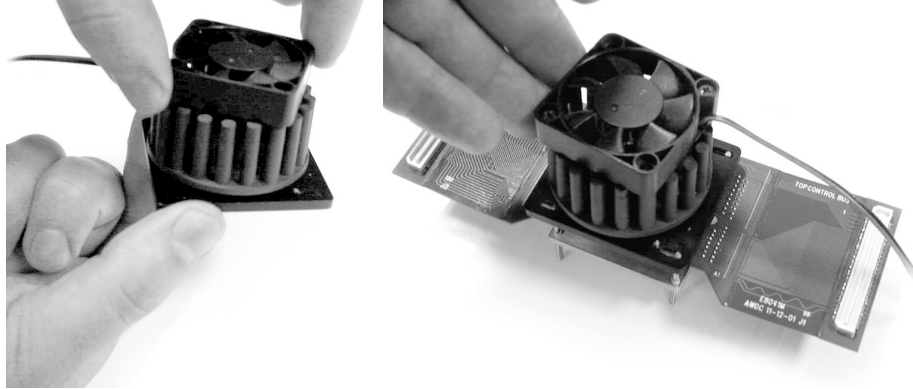


- 9 Align the processor over the socket on the interposer. Gently wiggle the assembly until you feel the pins fall into the holes. Visually check that the bottom of the processor module is flush with the top of the socket on the interposer, then close the socket.

**CAUTION**

The processor should be oriented the same way that it was originally oriented on the target system.

10 Re-install the heatsink.

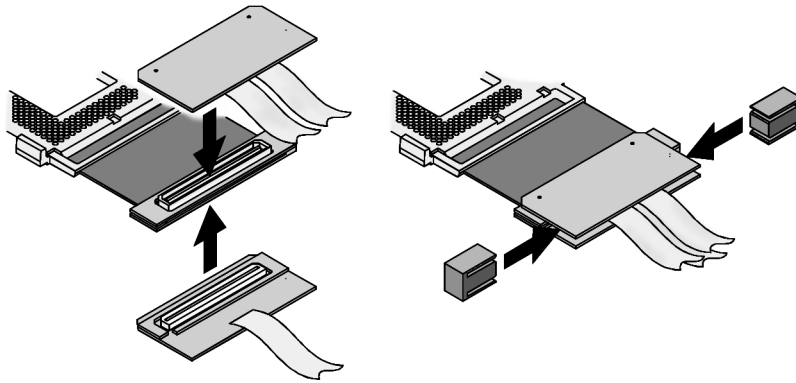


Tip: Rotate the top portion of the heatsink counterclockwise before installing it, then re-tighten the heatsink once it's on the interposer.

11 Connect the analysis probe cables to the interposer.

Refer to the silkscreened labels on the interposer and on the cable paddles.

Install the supplied clips to keep the paddles on the end of the analysis probe cables from pulling apart.



12 Connect the analysis probe to the logic analyzer.

Connect the pod cables to the connectors on the analysis probe as shown on the back of the analysis probe.

Safety Notices

This apparatus has been designed and tested in accordance with IEC Publication 1010, Safety Requirements for Measuring Apparatus, and has been supplied in a safe condition. This is a Safety Class I instrument (provided with terminal for protective earthing). Before applying power, verify that the correct safety precautions are taken (see the following warnings). In addition, note the external markings on the instrument that are described under "Safety Symbols."

Warnings

- Before turning on the instrument, you must connect the protective earth terminal of the instrument to the protective conductor of the (mains) power cord. The mains plug shall only be inserted in a socket outlet provided with a protective earth contact. You must not negate the protective action by using an extension cord (power cable) without a protective conductor (grounding). Grounding one conductor of a two-conductor outlet is not sufficient protection.
- Only fuses with the required rated current, voltage, and specified type (normal blow, time delay, etc.) should be used. Do not use repaired fuses or short-circuited fuseholders. To do so could cause a shock or fire hazard.
- If you energize this instrument by an auto transformer (for voltage reduction or mains isolation), the common terminal must be connected to the earth terminal of the power source.
- Whenever it is likely that the

ground protection is impaired, you must make the instrument inoperative and secure it against any unintended operation.

- Service instructions are for trained service personnel. To avoid dangerous electric shock, do not perform any service unless qualified to do so. Do not attempt internal service or adjustment unless another person, capable of rendering first aid and resuscitation, is present.
- Do not install substitute parts or perform any unauthorized modification to the instrument.
- Capacitors inside the instrument may retain a charge even if the instrument is disconnected from its source of supply.
- Do not operate the instrument in the presence of flammable gasses or fumes. Operation of any electrical instrument in such an environment constitutes a definite safety hazard.
- Do not use the instrument in a manner not specified by the manufacturer.

To clean the instrument

Do not attempt to clean this product.

Safety Symbols



Instruction manual symbol: the product is marked with this symbol when it is necessary for you to refer to the instruction manual in order to protect against damage to the product..



Hazardous voltage symbol.



Earth terminal symbol: Used to indicate a circuit common connected to grounded chassis.

Notices

© Agilent Technologies, Inc. 2002-2003

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.

Manual Part Number

E8041-92003, March 2003

E8041-92002 March 2002 (restricted)

Agilent Technologies, Inc.
1900 Garden of the Gods Road
Colorado Springs, CO 80907 USA

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.

Document 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.

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.

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.

Manual Part Number **E8041-92003** March 2003, Printed in USA

