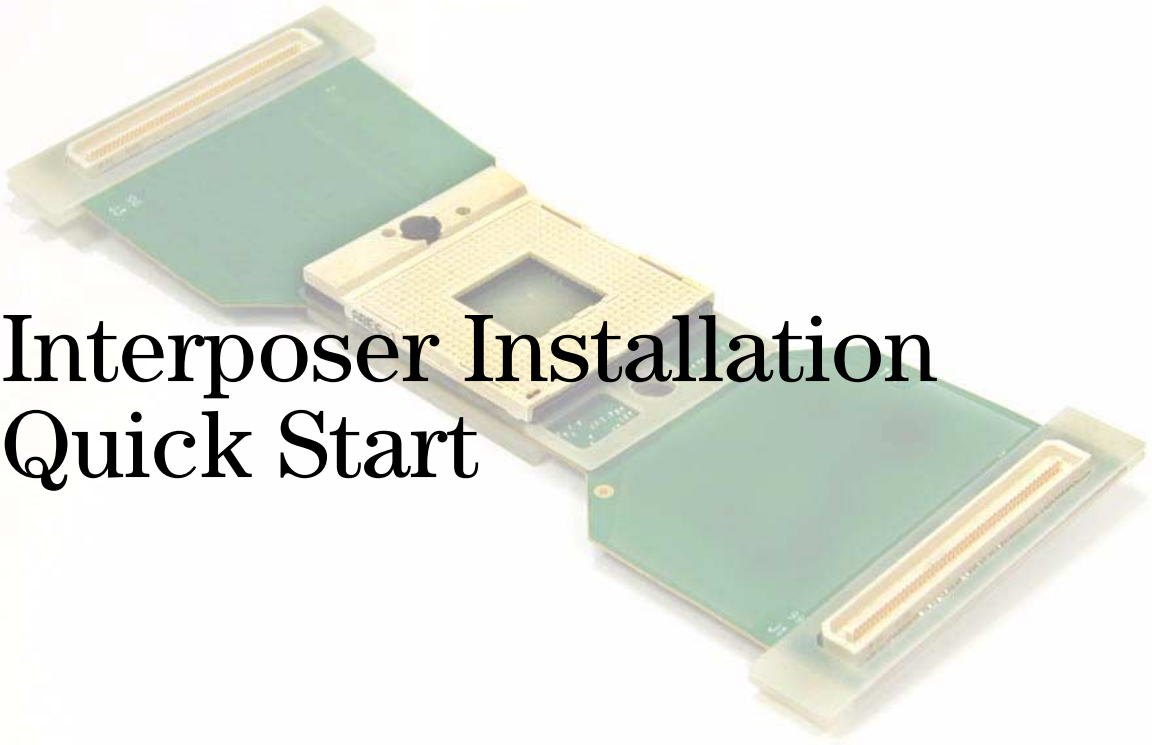
Agilent Technologies
E8041A Interposer for the Intel® Pentium® 4 Processor in the 478-Pin Package



# Interposer Installation Quick Start

**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.

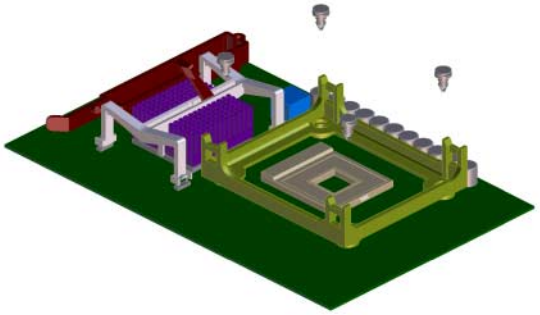
DO NOT kink the analysis probe cables.

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

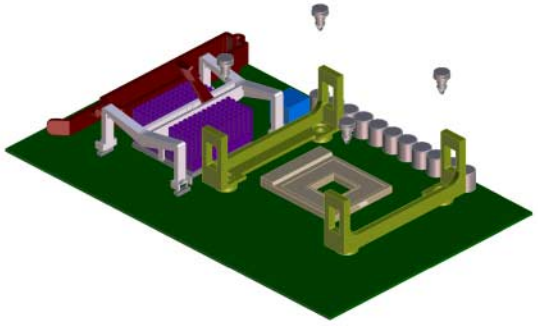
1 Remove the heatsink from the microprocessor.

2 Remove the microprocessor from the target system.

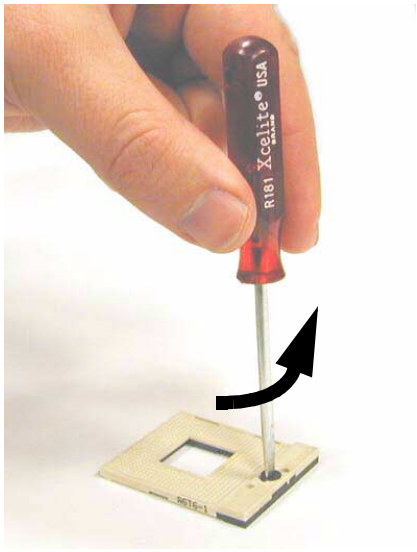
3 Remove the Intel retention module from the target system.



4 Install the Agilent retention modules.

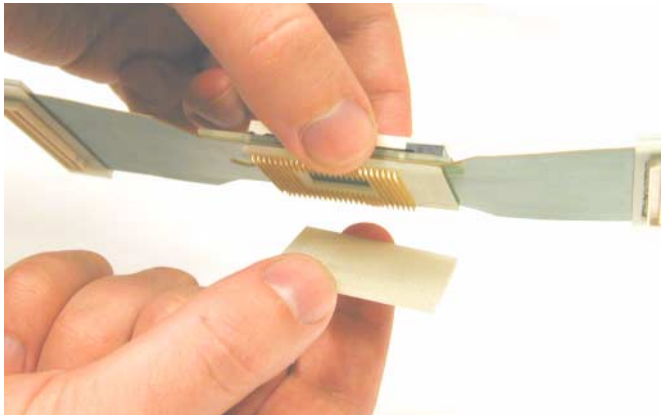


**5** Check that the socket on the target system is still open.

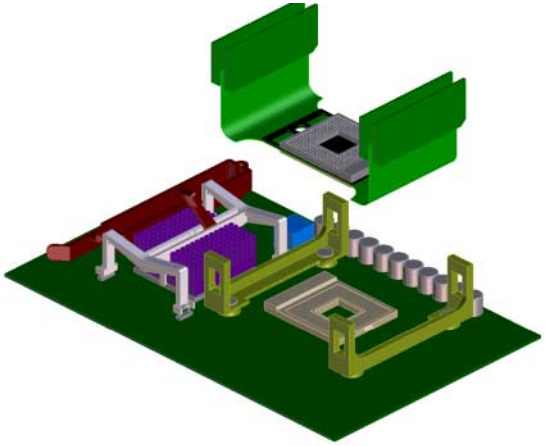



**6** Remove the pin protector from the interposer.

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



**7** Align the interposer over the socket on the target system.



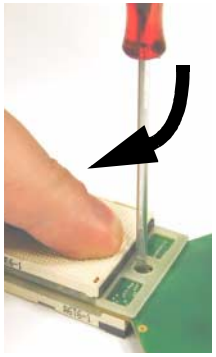
Note how the socket on the interposer is rotated 180° relative to the socket on the target system. This is done so that the interposer will not interfere with the target socket's actuation mechanism.

The wings of the interposer will flex around the retention modules.

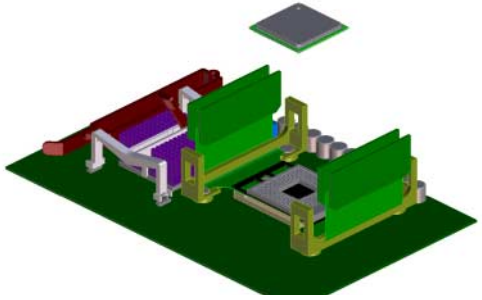
**8** Gently wiggle the interposer until you feel the pins fall into the holes of the socket.

**9** Visually check that the bottom of the interposer is flush with the top of the socket on the target system.

**10** With one hand, apply light downward pressure on the interposer. With the other hand, close the the socket.



**11** Align the processor over the socket on the interposer.

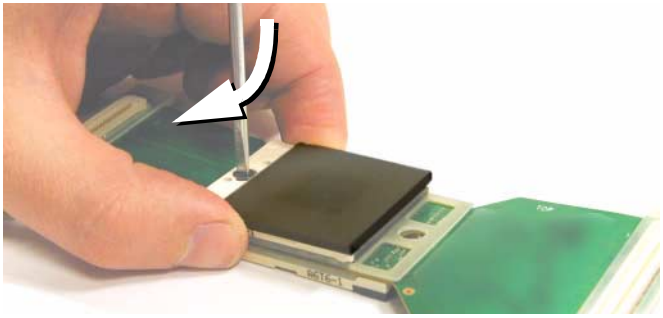


**CAUTION**

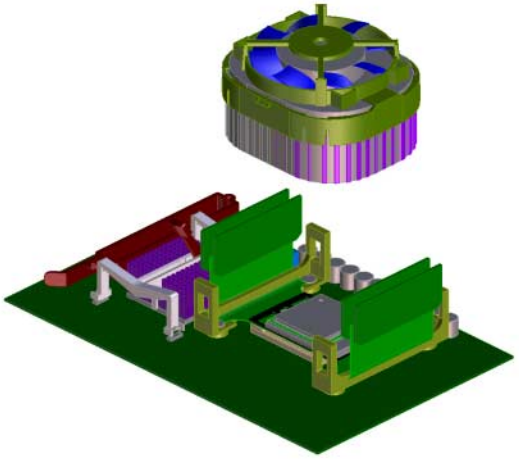
The processor should be oriented the same way that it was originally oriented on the target system. Note that the orientation of the processor with respect to the lever on the socket is opposite from the target system. The socket is keyed, so the processor will only go in the right way.

**12** 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.

**13** Apply light downward pressure on the processor while you close the interposer socket.

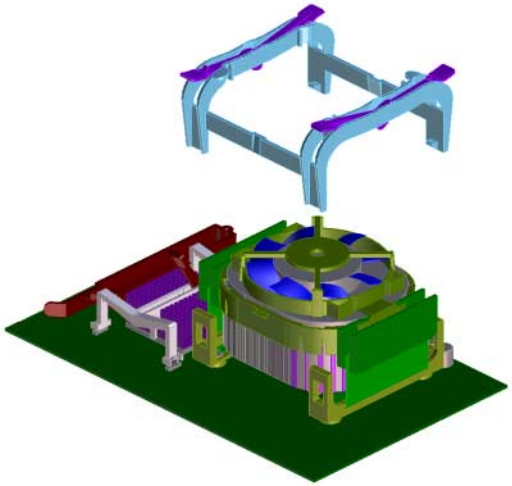


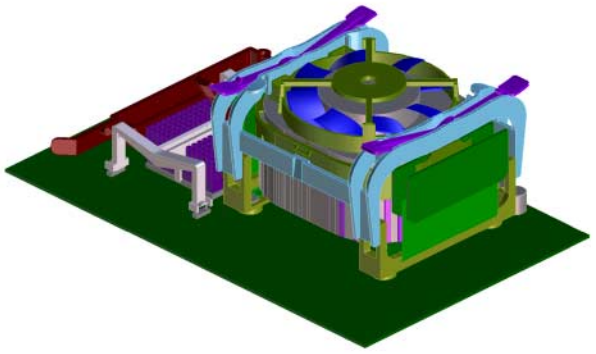
**14** Re-install the heatsink.



**15** Install the clip assembly to hold the heatsink in place.

Use the clip assembly which you removed earlier.

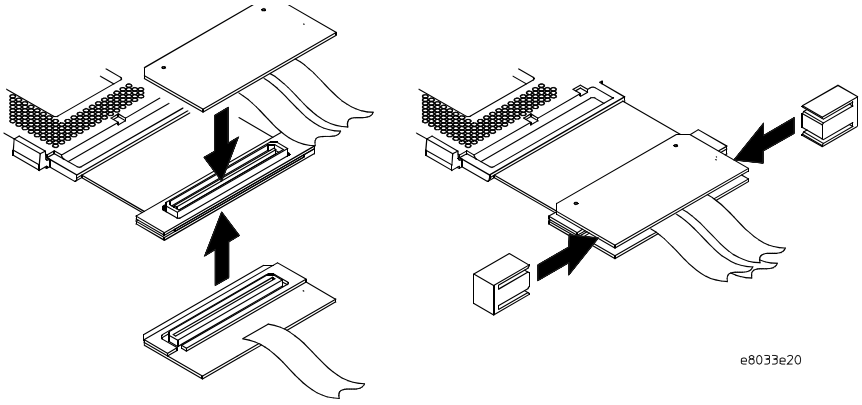




## 16 Connect the analysis probe cables to the interposer.

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.




## 17 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.

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**Warning**

• 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 of fire hazard.

• 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.

• If you energize this instrument by an auto transformer (for voltage reduction), make sure the common terminal is 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.

• 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 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.

**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.

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The Warning sign denotes a hazard. It calls attention to a procedure, practice, or the like, which, if not correctly performed or adhered to, could result in personal injury. Do not proceed beyond a Warning sign until the indicated conditions are fully understood and met.

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**About this edition**

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