

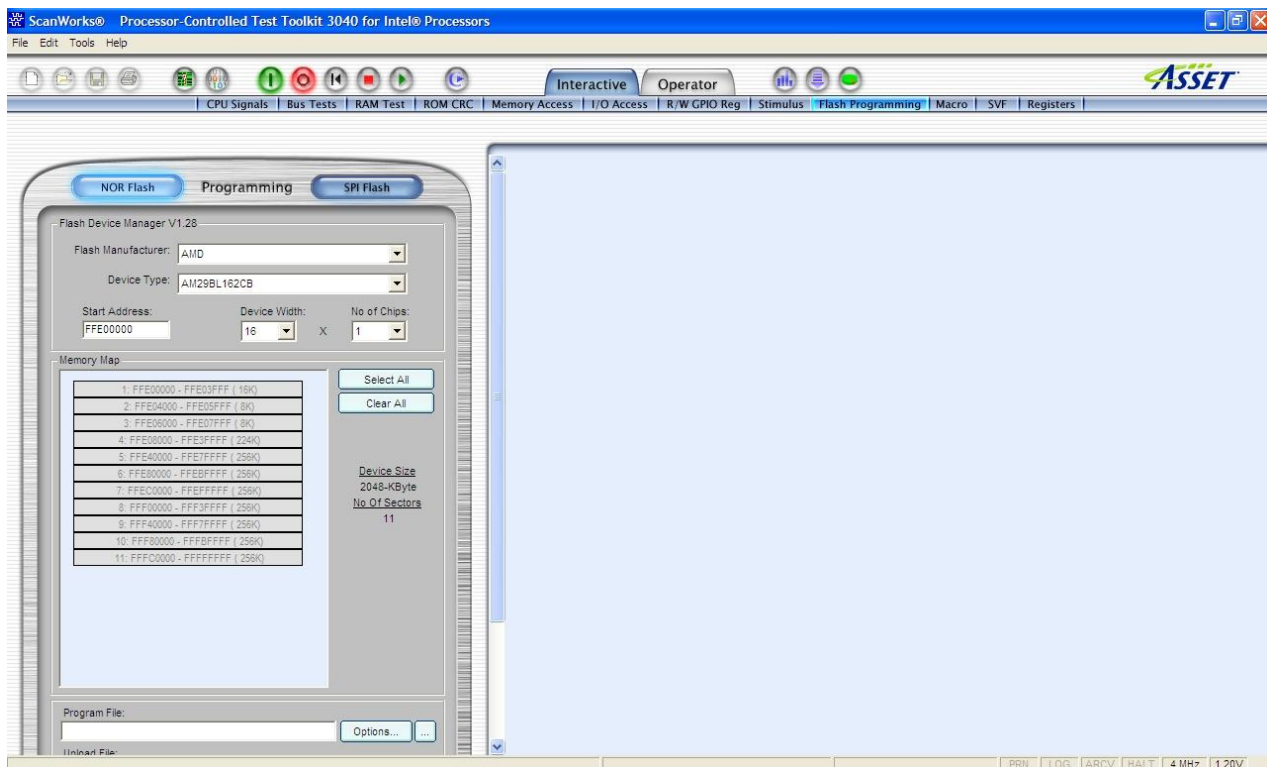
ASSET INTERTECH

PROCESSOR-CONTROLLED TEST DIAGNOSTIC & REPAIR STATION

ASSET InterTech is excited to introduce Processor-Controlled Test (PCT) Diagnostic & Repair Station. There are times when you need a tool to do some diagnostics on an UUT that has failed a manufacturing test but you don't need to develop a test, just diagnose the problem. We have addressed the request by providing a Diagnostic & Repair station. With this software you have the power and flexibility to diagnose problems on the production line and problems in the field. With this software you will be able to access digital components via the processor and conduct testing independent of the test software. However, there are also times when you need to verify the test execution and we have considered

that too. So we have provided an interface to see exactly what the test execution on the UUT is doing. Finally, the right tool for the needs of test engineering at right price. The figure below is an example of the PCT Diagnostic & Repair Station interface for Intel® processors.

In addition to the changes in the interface we have also added the ability to use the product in a Network Campus or Network WorldWide setting. To find out more about the Network Campus and Network WorldWide portion of this tool please refer to http://www.asset-intertech.com/download/PCT_Networking_features.pdf.



The PCT Diagnostic & Repair Station consists of the Toolkit Software. In order to control the UUT (Unit under Test) from the software you will also need the controlling hardware. Refer to Figure 2 for a description of the hardware components. The software components consist of the following elements:

- Interactive Mode – This portion of the tool is the heart of the diagnostic engine. Where the engineer or technician can test ideas and theories about why the UUT is failing a particular test. The tests that are built into this mode are the same tests that were used to develop the test profile. So there is no worry of the diagnosis revealing something that cannot be tested in the test profile. This is also the area where further diagnostics can be conducted, where the use of other test tools are required like an oscilloscope. The user can also conduct interactive test of flash devices and a host of other digital logic like PCI and PCIe. You can read and write memory and registers giving you complete control over the UUT

Operator Mode – This is the area of the user interface which provides the test engineer the ability to see what the production operator sees and what the test profile is executing. This allows the engineer or technician to validate the diagnostic assumptions against known working test code.

For complete description of the hardware components please refer to

http://www.asset-intertech.com/download/PCT_debug_hardware.pdf

**Processor-Controlled Test
Hardware Components List**



Note* Items 1 and 8 are not provided by ASSET

- 1 Control PC*
- 2 PCI-200EJ Controller
- 3 PCI to Processor POD Cable
- 4 Processor POD
- 5 I/O Emulation Unit
- 6 I/O Plug-in Cards
- 7 I/O Feedback Cable
- 8 UUT