





JTAG Manager

USER'S GUIDE



CUSTOMER INFORMATION

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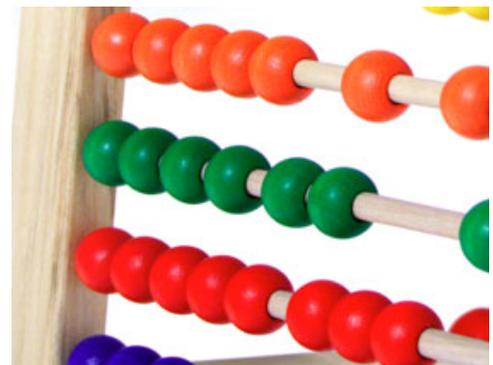
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This chapter provides basic information about the Boundary-Scan testing process as well as the StarTest JTAG Manager software tool. The chapter also discusses installing and launch the JTAG Manager.

1.1 About the StarTest JTAG Manager

JTAG Manager™ is the StarTest software tool (patent pending) on the C# language of the Microsoft Visual Studio 2008 Beta. JTAG Manager is the PC-based operational envelope that intended for implementation on the OEM electronic board manufacturing facilities and/or in the R&D labs.

Featuring unprecedented versatility which combines various JTAG Runners with the fault diagnostic support, the JTAG Manager operational envelope is intended to work with the following JTAG vendor (listed alphabetically) software tools:

- **ASSET Intertech® ScanWorks™** test and programming tools
- **Corelis® ScanExpress™** test and programming tools
- **Flynn Systems® onTAP™** test and programming tools
- **JTAG Technologies® ProVision™** test and programming tools
- **XJTAG® XJRunner™** test and programming tools

All relevant data contains in specifically designed JTAG Manager Data Base. This Data Base consists of the complete information and handling tools for both hardware (assembly) versions of each board and firmware (code) releases. The JTAG Manager have simple and friendly operator oriented GUI both for project and board selection and for hardware and software / firmware release selection.

The JTAG Manager automates all processes mentioned above with minimal intervention of production facility operator. The professional requirements to the test operator skills are minimal.

The JTAG Manager is intended for use in any production process of electronic boards and systems that are developed according to the well-known Design-For-Testability (DFT) rules and the Boundary-Scan (JTAG) technologies: IEEE 1149.1 (Digital) and IEEE 1149.6 (Advanced). The JTAG Manager can be implemented both for separate boards and for entire system.

When the JTAG Manager is in usage, there is no need to use neither Automated Test Equipment (ATE) GUI of the vendors mentioned above nor standalone ISP GUI for the CPLD/FPGA /Flash devices programming.

1.1.1 Minimal HW Requirements for the JTAG Manager Usage

- PC with OS Microsoft Windows 9x, Windows 2000, Windows XP, or Windows NT
- Pentium-4 processor or better, 3 GHz is a good choice
- RAM 512 Mbyte
- 5 Gb of free HD space
- USB port

1.1.2 Minimal SW requirements for the JTAG Manager usage

These requirements are the JTAG vendor software tools dependable.

■ Corelis® ScanExpress™ test and programming tools:

- Any JTAG-1149.1 controller
- HW key authorized (PP or USB) to support the ScanExpress Runner SW
- ScanExpress Runner Ver. 6.02u or above

■ Flynn Systems® onTAP™ test and programming tools:

- onTAP USB High Speed JTAG Test and Programming Cable
- HW key authorized to support the onTAP SW
- onTAP Series 4000, any release

■ T B D

1.2 Installing JTAG Manager

Launch  **JTAG Manager Setup.exe**. The Wizard will display the following screen. If the Microsoft .NET Frameworks 2.0 is not installed on your PC, the JTAG Manager Installer will do it (recommended !).



Click **Next>** button and follow the on-screen instructions to complete installation process. Restart your computer.

To add your own license text to this dialog, specify your license agreement file in the Dialog editor.

1. Navigate to the **User Interface** view.
2. Select the **LicenseAgreement** dialog.
3. Choose to edit the **dialog layout**.
4. Once in the Dialog editor, select the **Memo ScrollableText** control.
5. Set **FileName** to the name of your license agreement RTF file.

After you built your release, your license text will be displayed in the License Agreement dialog.

License Agreement window – according to



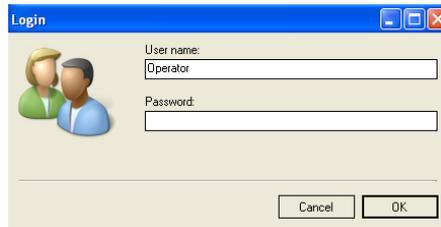
1.3 Launch JTAG Manager

Step a. Double-click on the JTAG Manager icon to start the JTAG Manager session.



The icon looks similar to the following one:

Step b. Fill the Login window (Screen [1](#)) with your User name and Password. Click OK.



Screen *i*

Step c. The About screen after pressing the “?” button looks like Screen *ii*.



Screen *ii*

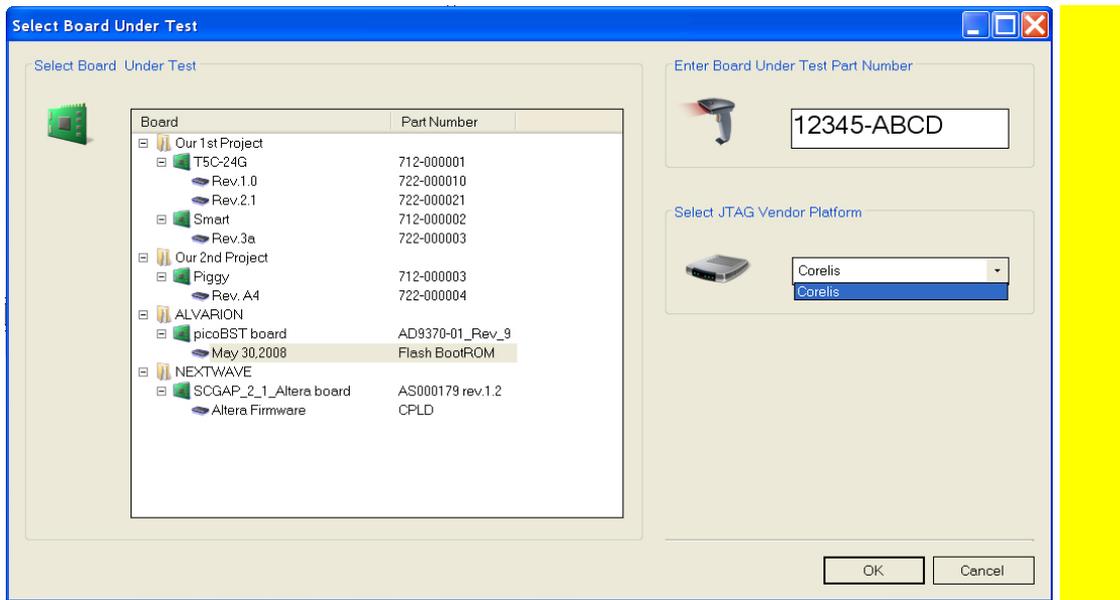
Chapter 2 JTAG Manager Usage

This chapter provides step-by-step information and sequential screens when the JTAG Manager is using for testing and on-board programming.

Step 1. In order to open the new **JTAG Manager™** project (see Chapter 3 below) click Open button, or File/Open, or Ctrl-O. The GUI is storing the last visited folder of the JTAG Manager Project Configuration File with the *.jtm extension.

Another convenient option to open the JTAG Manager project is to select one of already used *.jtm files through File/Recent Projects menu.

As a result you can see the following pane:



Screen 2.1

Step 2. Select the Board-Under-Test (BUT) you need according its HW & SW Part number.

Select the JTAG test platform in the Select JTAG Vendor Platform window.

Step 3. Enter the BUT serial number in the corresponding window manually or with the Barcode Reader. The contents of his window is optional.

