



TrueSTUDIO[®]

**The embedded systems
development tool
for the next decade**

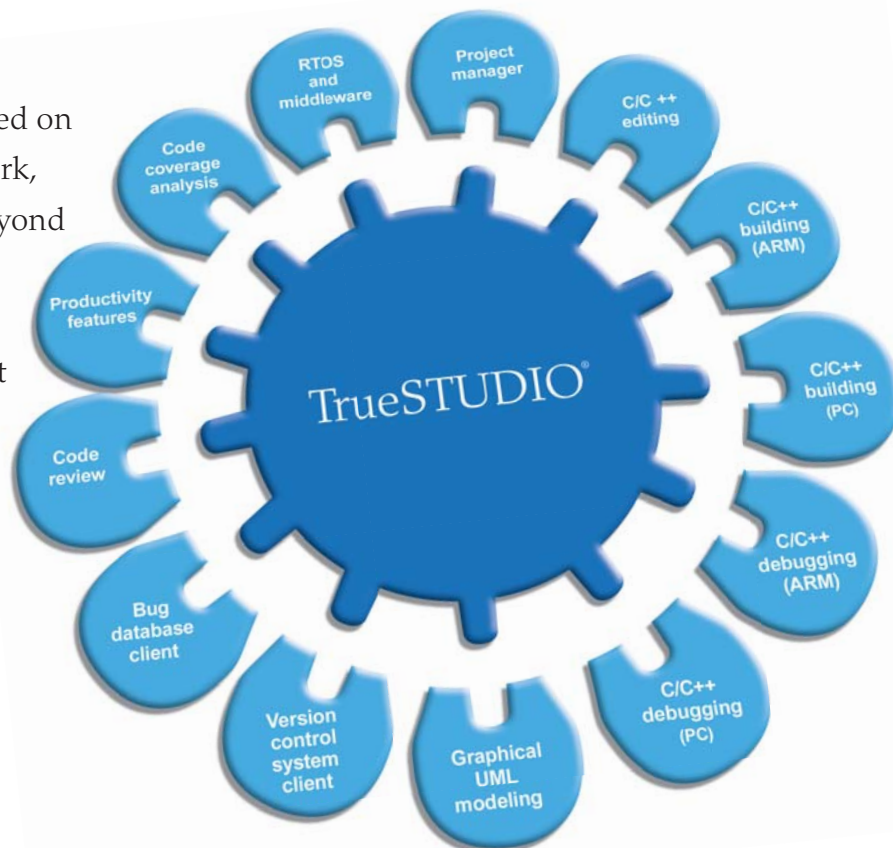




Atollic TrueSTUDIO®

is an embedded systems development tool that provides an unrivalled feature-set and superior integration at an unbeatable price.

Atollic TrueSTUDIO® is based on the ECLIPSE™ IDE framework, contains integration well beyond most existing embedded systems development tools, and its feature-set rivals that in best-of-breed tools for PC development.



A paradigm shift in the embedded industry.

Atollic TrueSTUDIO® is the premier C/C++ development tool for embedded developers, reducing time to market and increasing efficiency in your next embedded systems project.

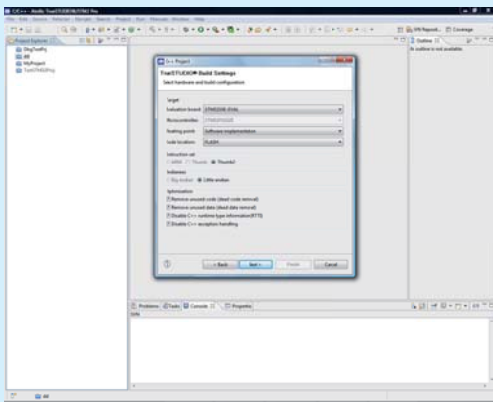
Atollic TrueSTUDIO® creates a paradigm shift in the embedded industry with its wide feature-set and unprecedented integration, and supports many popular microprocessor families.

Built-in features for complexity management reduce the burden on developers to keep track on the code and related development activities. Additional benefits are the excellent target support, team collaboration features, code quality features, and the soft migration path into UML modeling.

The product is also very cost-effective, as it comes in a free Lite version (unlimited code-size and usage-time) as well as commercial versions which is recommended for professional use.

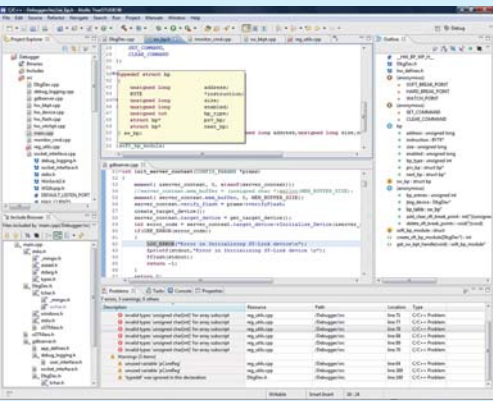
FEATURE COMPARISON			
FEATURE	LITE	PROFESSIONAL	ANALYZER*
Price	<i>Free</i>	<i>Commercial</i>	<i>Commercial</i>
Assembler	✓	✓	✓
C	✓	✓	✓
C++	-	✓	✓
ARM build & debug tools (GNU)	✓	✓	✓
Many additional ARM command line tools	-	✓	✓
PC build & debug tools (GNU)	-	✓	✓
Extensive IDE	✓	✓	✓
Additional IDE features	-	✓	✓
UML editors	-	✓	✓
Version control system client	-	✓	✓
Bug database client	-	✓	✓
Source code review	-	✓	✓
Code coverage analyzis (MC/DC level)	-	-	✓
Runtime libraries	<i>Precompiled</i>	<i>Adaptable</i>	<i>Adaptable</i>
JTAG probe support	<i>Limited</i>	<i>Extensive</i>	<i>Extensive</i>
Technical support	-	<i>Available</i>	<i>Available</i>
Unlimited code size	✓	✓	✓
Unlimited usage time	✓	✓	✓

* some target families only



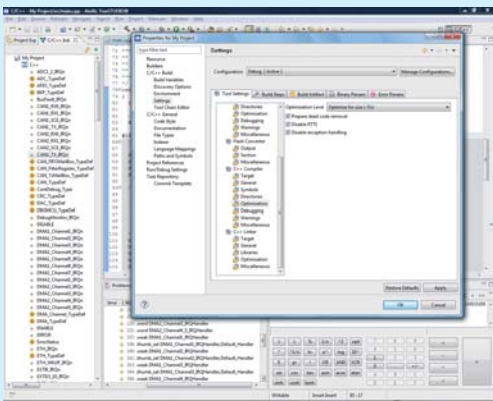
Project wizard and project manager

Atollic TrueSTUDIO® contains a project wizard that automates the task of creating a working project for a new electronic board or micro-controller device. Make some basic settings, and the project wizard create a target adapted project automatically. The linker configuration file is configured for the selected board, and a device driver library is generated automatically for many target families!



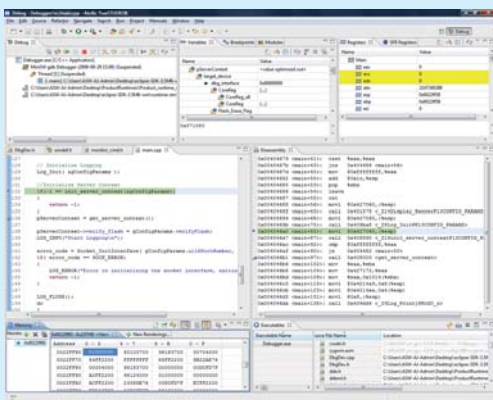
Source code editors

Atollic TrueSTUDIO® contains a state-of-the-art editor with almost any feature you can imagine! Noteworthy features are spell checking of C/C++ comments, word- and code completion, content assist, parameter hints and code templates. The editor also includes an include-file dependency browser, code navigation using hypertext-links, bookmark & to-do lists, and powerful search mechanisms.



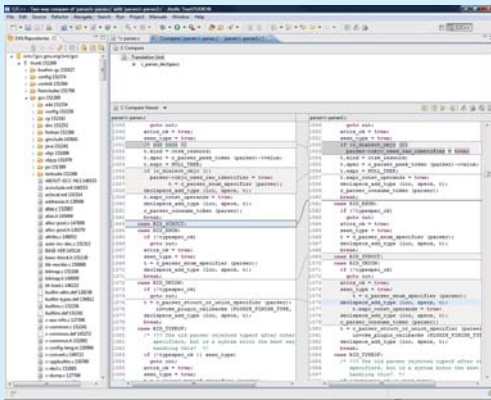
Build tools

Atollic TrueSTUDIO® includes the highly optimizing GNU C/C++ compiler for both the embedded target processor and host PC, enabling early development on a Windows PC before the target hardware is available. This allows testing of software algorithms without interference from the embedded platform. Finally, there is no need to use Microsoft VisualStudio® in parallel with the embedded C/C++ compiler!



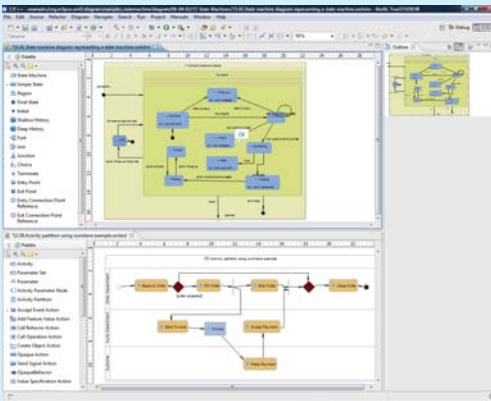
Debugger with JTAG support

The professional debugger supports colour coded syntax and folding of code blocks in the source code window. It includes memory and dis-assembly views, breakpoint and register views, and a variables view with support for mathematical calculations. Atollic TrueSTUDIO® also supports code and data breakpoints, including conditional and counting breakpoints, with optional breakpoint actions.



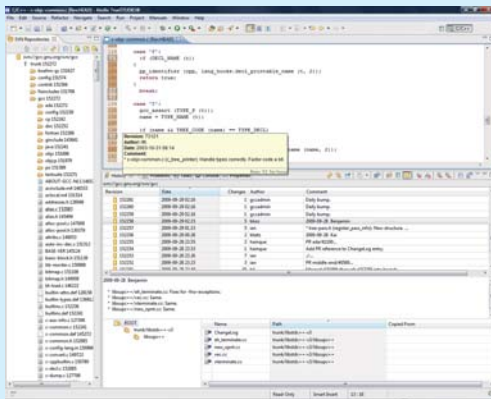
Productivity features

Atollic TrueSTUDIO® includes many productivity features such as a graphical file difference viewer, a programmer’s calculator, an integrated MS/DOS console window and a batch file execution window. A local copy is stored whenever a file is saved. It is also possible to revert to older versions or compare a file with older versions of itself, even without a proper version control system on the server.



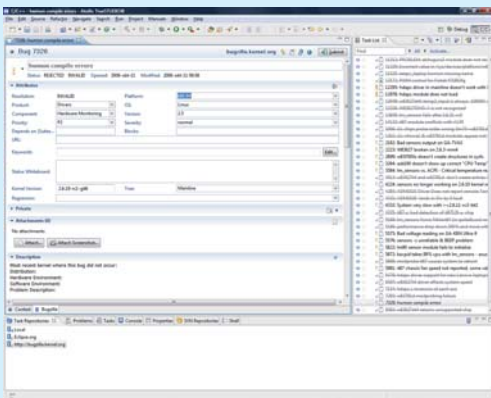
Graphical UML diagram editors

A large number of graphical UML diagram editors are integrated in Atollic TrueSTUDIO® making it a truly groundbreaking tool. This means that embedded developers now get a soft migration path into model based design as requirements can be captured, the static structure as well as the dynamic behaviour of the application can be modeled and documented using professional methodologies.



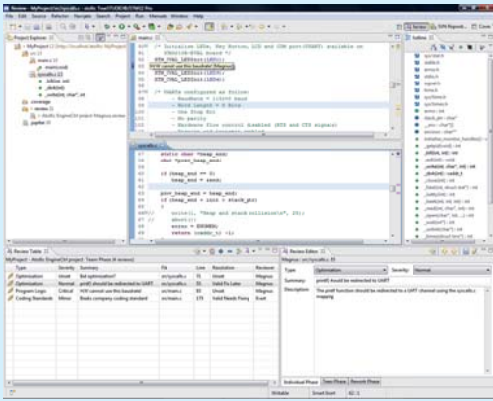
Version control system client

Atollic TrueSTUDIO® includes a fully integrated version control system client. Developers can manage the code complexity by checking-in/out files from the server, branch and merge source code trees, tag source code revisions, and browse the server repository or file histories. Using the file annotation utility it is even possible to trace when, why, and by whom every source code line in the project was added!



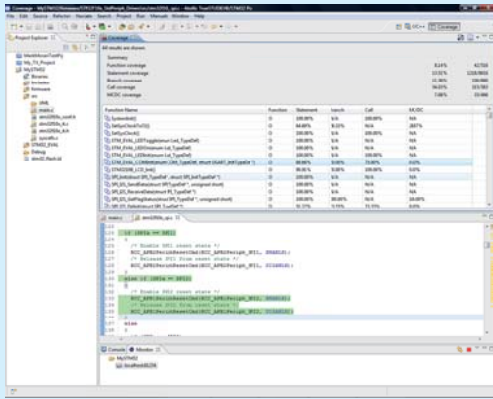
Bug database client

Atollic TrueSTUDIO® includes a client for bug database systems. Developers can list all bugs on the server that match certain filtering criteria, search for bug reports on the server, or edit specific bug reports and feature requests. Atollic TrueSTUDIO® can take screenshots and attach them to a bug report. It even remembers what source code files were opened in the editor the last time a bug report was activated!



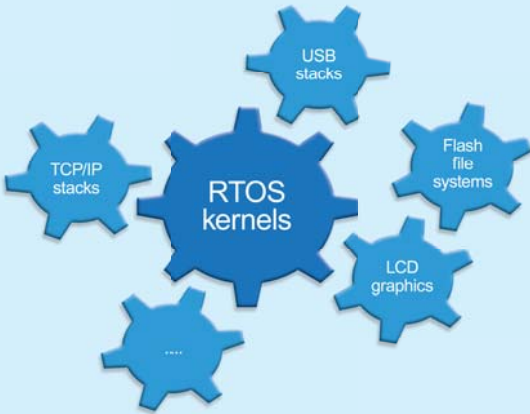
Source code review

Atollic TrueSTUDIO® is the first embedded systems development tool to include features for peer review and code review meetings. A code review can easily be created, and reviewers can add review comments to any source code line along with information on severity and category. Finally a review meeting is held and colleagues discuss what review comments should be assign-ed to team members for implementation.



Dynamic code coverage analysis*

Some versions of Atollic TrueSTUDIO® contains features for professional code coverage analysis of an application running in a target board. The product makes code coverage measurements up to the level of Modified Condition/Decision Coverage (MC/DC)! This type of analysis is required for safety-critical software, such as flight control systems developed according to the RTCA DO-178B Level A standard.



RTOS and middleware

For good reasons, Atollic TrueSTUDIO® is one of the fastest growing products on the embedded systems development tools market. Many of the most well-known suppliers of real-time operating systems and middleware have ported their products to Atollic TrueSTUDIO®. Examples are RTOS kernels, USB and TCP/IP protocol stacks, Flash file-systems, and LCD graphic libraries.

SUMMARY

Atollic TrueSTUDIO® provides a cost effective and simple path to development of high-quality software for embedded devices. The tool is highly integrated and contains a feature set well beyond what is commonly expected in other embedded systems development tools, and is fully on-par with best-of-breed tools for PC development.

All-in-all, Atollic TrueSTUDIO® gives embedded developers a feature-set, productivity and value-for-money rarely experienced in the embedded industry.



No usage-time limitation
No code-size limitation
Download at
www.atollic.com

Are you in need of consulting services?

Atollic is the ideal partner for demanding software projects. Our developers are highly experienced and have taken part in a large number of projects in the aerospace, automotive, industrial, defence and consumer market segments. Many projects have been related to safety-critical or real-time systems.

Contact us!



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TrueSTUDIO[®]

Atollic TrueSTUDIO[®] is the premier development tool for embedded systems. It provides an unrivalled feature-set and superior integration at an unbeatable price!

- Powerful IDE based on ECLIPSE™
- GNU C/C++ compiler & debugger for embedded CPU
- GNU C/C++ compiler & debugger for PC
- JTAG debug & CPU simulator
- UML editors for graphical modeling
- Version control system client
- Bug- and task management system
- Excellent target support
- Free & low-cost versions available

