# QNX Momentics Tool Suite

Flexible Eclipse-based IDE for maximum insight into system behavior with innovative profiling tools to slash debug times and accelerate optimization of complex embedded systems.

Comprehensive and tightly integrated, the QNX® Momentics® Tool Suite has everything developers need to quickly build and optimize applications for the QNX Neutrino® Realtime Operating System (RTOS). From board bring-up to remote diagnostics, the QNX Momentics Tool Suite provides time-saving tools for the entire development cycle, all in a single, easy-to-use environment.

## Gain design flexibility

With the QNX Momentics Tool Suite, developers can choose their preferred programming language, host, and target. They can code in C, C++11, or Embedded C++; develop on Windows or Linux hosts; and target ARM Cortex A series and x86 processors - all from the same integrated development environment (IDE).

The tool suite also gives developers the flexibility to work with a mix of languages and processor architectures simultaneously.
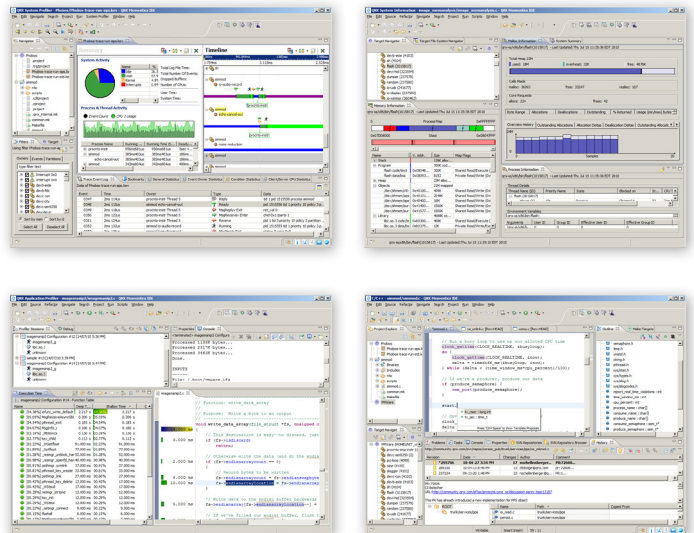
## Use one IDE

Plug in third party tools or build custom plug-ins using the industry-standard Eclipse framework. The IDE in the QNX Momentics Tool Suite is based on Eclipse — an open, extensible platform for tool integration supported by a large community of tool vendors and developers.

Eclipse provides well defined interfaces to ensure that tools work together seamlessly. There is no need to learn a different user interface for every tool, since all of the tools in the QNX Momentics IDE share the same look and feel.

## Accelerate development cycles

Shorten product development cycles and meet aggressive shipment schedules. The QNX Momentics Tool Suite provides a number of productivity and quality analysis tools to accelerate all phases of

product delivery. Wizards let developers quickly and easily create projects, make and maintain target images with the system builder, and highlight exercised source code paths for quality assurance testing using the code coverage tool.



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## Optimize system resources

Achieve maximum visibility into system behavior while ensuring minimal impact on system integrity. The QNX Momentics Tool Suite features a number of graphical, non-invasive analysis tools to help easily isolate and visualize resource usage, pinpoint bottlenecks, and fine-tune the performance of a system, including application profiling, system profiling, and memory analysis.

## Integrate advanced technology

Access proven technologies and tools to enhance and customize products for competitive differentiation — all in a convenient development kit. The QNX Momentics Tool Suite supports all QNX Neutrino RTOS technologies, including multi-core, extended networking, flash filesystems, advanced graphics, and transparent distributed processing.

## Foundry27

This community portal for QNX developers provides software updates, board support packages, drivers, forums, and wikis. Whether developers want to discuss ideas, post questions or answers about developing with QNX, or download drivers for the latest hardware, Foundry27 offers the resources required.

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**The QNX Momentics Tool Suite at a glance**

### Fully integrated IDE

- Based on open Eclipse framework
- C and C++
- Source control
- Source debugger
- System builder
- Target system information
- Target agent
- Application profiler
- Memory analysis
- System profiler
- Code coverage

### Libraries and GNU tools

- ANSI C
- Dinkum C++ and Embedded C++
- GCC optimizing compilers
- GDB debugger

### Multiple development hosts

- Windows
- Linux

### Board support packages

- Support for popular boards based on ARM Cortex A series and x86 cores

### Documentation

- Example projects, context-sensitive help, and online manuals

### Recommended system requirements

- 2GHz Intel Pentium 4
- 2GB RAM
- 4GB disk space
- 1080 x 1024 monitor resolution

\* These system requirements are recommended for a Windows or Linux host.

## About QNX Software Systems

QNX Software Systems Limited, a subsidiary of BlackBerry, is a leading vendor of operating systems, development tools, and professional services for connected embedded systems. Global leaders such as Audi, Cisco, General Electric, Lockheed Martin, and Siemens depend on QNX technology for vehicle infotainment units, network routers, medical devices, industrial automation systems, security and defense systems, and other mission- or life-critical applications. Founded in 1980, QNX Software Systems Limited is headquartered in Ottawa, Canada; its products are distributed in more than 100 countries worldwide. **Visit www.qnx.com**