

QNX Momentics Development 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® development suite has everything you need to quickly build and optimize applications for the QNX Neutrino® realtime operating system (RTOS). From board bring-up to remote diagnostics, QNX Momentics provides time-saving tools for your entire development cycle, all in a single, easy-to-use environment.

Gain design flexibility

Choose your preferred programming language, host, and target. With QNX Momentics, you can code in C, C++, Embedded C++, or Java; develop on Windows, Linux, or QNX Neutrino hosts; and target ARM, MIPS, PowerPC, SH-4, and x86 processors — all from the same integrated development environment (IDE).

QNX Momentics also gives you the flexibility to work with a mix of languages and processor architectures simultaneously.

Use one IDE

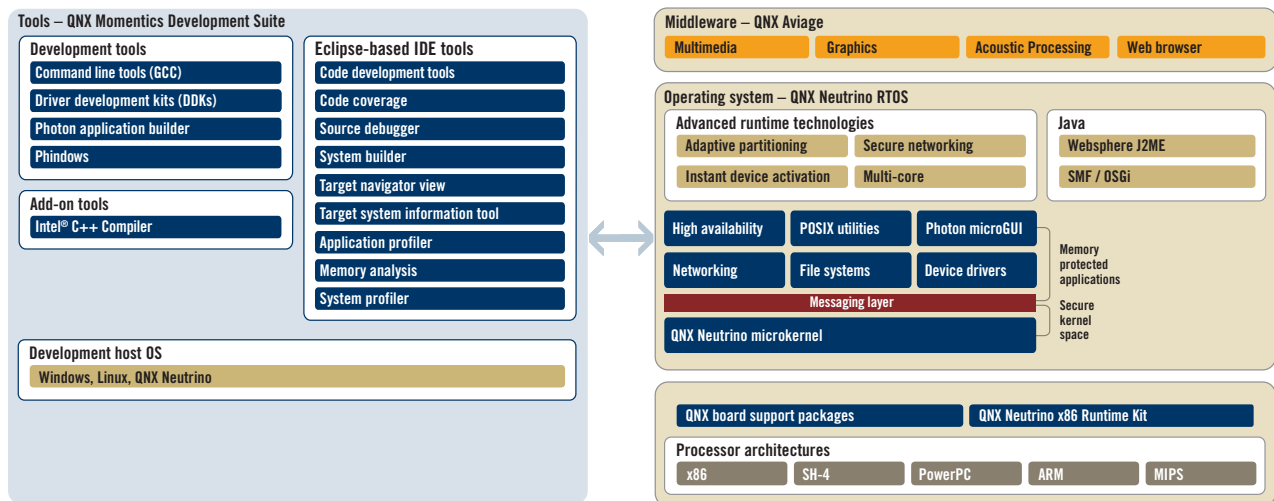
Plug in third-party tools or build your own plug-ins, using the industry-standard Eclipse framework. The IDE in QNX Momentics is based on Eclipse — an open, extensible platform for tool integration supported by a large, and rapidly growing, community of tool vendors and developers.

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 your product development cycle and meet aggressive shipment schedules. QNX Momentics provides a number of productivity and quality analysis tools to accelerate all phases of product delivery. For example, the system builder lets you generate target images with pre-built files; wizards allow you to create projects automatically; and the code coverage tool highlights exercised source code paths for quality assurance testing.

QNX Momentics Development Suite



QNX Momentics provides a full suite of productivity and analysis tools, all integrated into a single, Eclipse-based IDE — allowing you to create, debug, and optimize QNX Neutrino applications.

Optimize system resources

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

Integrate advanced technology

Access proven technologies and tools to enhance and customize your products for competitive differentiation — all in a convenient, royalty-free package. QNX Momentics supports all QNX Neutrino RTOS technologies, including multi-core, extended networking, flash file systems, advanced graphics, and transparent distributed processing.

Foundry27

This community portal for QNX software developers provides source repositories, forums, blogs, wikis, and, in the community spirit, a bazaar that lets developers share source code and binaries with one another. Whether the developer wants to download source, discuss ideas with fellow developers, or even create a new code project for the QNX community, Foundry27 offers the resources required.

About QNX Software Systems

QNX Software Systems, a Harman International company (NYSE: HAR), is the innovation leader in embedded technology with middleware, development tools, operating-system software and services. Global leaders such as Cisco, Daimler, General Electric, Lockheed Martin, and Logitech depend on QNX technology for a wide range of OEM applications. QNX Software Systems is headquartered in Ottawa, Canada, and distributes products in over 100 countries worldwide.



QNX Momentics at a glance

QNX Neutrino RTOS

- ▶ Highly reliable microkernel architecture
- ▶ Transparent distributed processing
- ▶ Symmetric multiprocessing
- ▶ Instrumented microkernel
- ▶ QNX Photon® microGUI® windowing system
- ▶ Hundreds of POSIX, UNIX, and QNX utilities

Fully integrated IDE

- ▶ Based on open Eclipse framework
- ▶ C, C++, embedded 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 2000, XP, Vista
- ▶ Linux
- ▶ QNX Neutrino

Application builder

- ▶ Visual design tool to create full-featured user interfaces
- ▶ Pre-built templates or widgets for custom development
- ▶ Translation into multiple languages without recompiling or relinking

Board support packages

- ▶ Support for popular boards based on ARM, MIPS, PowerPC, SH-4, and x86 cores

Driver development kits

- ▶ Audio, graphics, input, networking, printer, serial, and USB devices

Documentation

- ▶ Training videos, context-sensitive help, and online manuals
- ▶ Printed documentation

System requirements

- ▶ 650MHz Pentium or better
- ▶ 256M RAM
- ▶ 1.5G disk space