QNX and Freescale Semiconductor

For over a decade, QNX and Freescale Semiconductor have worked closely together to help developers accelerate time to market while reducing overall development.

Embedded developers are under pressure to deliver innovative, differentiated products in resource constrained environments at the lowest possible cost. System complexity continues to increase while market windows shrink. Demands for high system availability and overall reliability are rising. Developers need to be able to quickly leverage the latest technology to meet their schedules and performance targets.

QNX Software Systems understands these requirements. Together, QNX and Freescale continue to work closely to deliver solutions for markets including automotive, consumer, industrial control, networking, medical and military. Broad support of the Freescale i.MX, MobileGT and Power architecture allows developers to select the ideal processor for their application.

Optimized for Freescale processors, QNX Software Systems provides QNX Neutrino® RTOS, a highly reliable real-time operating system integrated with QNX Momentics® development suite. Building on three decades of experience in the embedded market, QNX Aviage® middleware extends the award winning QNX Neutrino RTOS, integrating advanced graphics capability, rich multimedia rendering, and a flexible HMI framework in a footprint suitable for today's resource constrained embedded devices.

QNX Neutrino realtime operating system

The QNX Neutrino RTOS delivers a modular microkernel architecture optimized for embedded applications. Using QNX Neutrino RTOS, developers can build highly available, highly scalable systems that need the stringent requirements imposed by the embedded market. The QNX Neutrino RTOS is the only mature, proven SMP capable RTOS available today. Deployed and shipping in many applications including the world's highest capacity router, QNX Neutrino is complemented by the only development suite that was built from the ground up to support multi-processing.

QNX Software Systems offers extensive Freescale support

Host processors	MPC603, MPC603e, MPC604, MPC604e, MPC740, MPC745, MPC750, MPC750ex, MPC755, MPC7400, MPC7410, MPC7450, MPC7451, MPC7447
PowerQUICC processors	MPC821, MPC823e, MPC850, MPC855T, MPC860, MPC860T (P), MPC860DE (DT, DP, EN, SR), MPC8240, MPC8245, MPC8255, MPC8260, MPC8266, MPC8270, MPC8280, MPC8343, MPC8347, MPC8349, MPC8540, MPC8541, MPC8548, MPC8555, MPC8560
Multi-core processors	MPC8641D, MPC857x
i.MX	i.MX 31/21
MobileGT	MPC5200, MPC5200B, Lite5200B, Media5200, MPC5121
Boards	Sandpoint, 826x ADS, MVP, Discovery, Atlantis, FADS and others
Coming soon	i.MX 35/25, i.MX27, MPC8313

QNX Momentics development suite

The QNX Momentics development suite provides a robust collection of time-saving visualization tools including tools for code coverage, memory analysis, application profiling, system profiling and target debugging to accelerate optimization of complex embedded systems.

QNX advanced graphics

QNX advanced graphics technology provides a set of tools and runtime components for creating sophisticated displays that feature hardware accelerated 2D and 3D graphics rendering. For embedded 3D requirements, it supports the OpenGL ES 1.0 API, a well-defined subset of the OpenGL designed specification for embedded applications.
The graphics framework supports full screen user interfaces as well the ability to mix 2D and OpenGL ES applications in a multi-threaded environment.

QNX Aviage HMI player

The QNX Aviage HMI player for Adobe Flash Lite 3 brings the power of Flash to the embedded market enabling a new class of animated HMIs. Built on the strength of the QNX advanced graphics framework, the QNX Aviage HMI player allows software designers to implement entire user interfaces in Adobe Flash, dramatically reducing the traditionally lengthy development process for HMI design.

QNX Aviage multimedia suite

The QNX Aviage multimedia suite provides a fully customizable platform for building scalable consumer-grade solutions that range from simple multimedia players to multi-console media networks with sharable media. Designed to provide everything developers need for consumer media and infotainment applications, the suite includes a high performance, configurable multimedia engine, media synchronizers and database support, session management with persistence and software/hardware-assisted decode and encode.

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. Get in on the action at www.foundry27.com

About Freescale Semiconductor

Freescale Semiconductor is a global leader in the design and manufacture of embedded semiconductors for the automotive, consumer, industrial, networking and wireless markets. The privately held company is based in Austin, Texas, and has design, research and development, manufacturing or sales operations in more than 30 countries. Freescale is one of the world's largest semiconductor companies with 2007 sales of $5.7 billion (USD). www.freescale.com.

About QNX Software Systems

QNX Software Systems, a Harman International company (NYSE: HAR), is the leading global provider of innovative embedded technologies including middleware, development tools, and operating systems. Corporations such as Cisco, Daimler, General Electric, Lockheed Martin, and Logitech depend on QNX technology for a wide range of mission critical applications.

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