

QNX SDK for Apps and Media

Create compelling applications and multimedia solutions



The QNX® SDK for Apps and Media allows device manufacturers to build mobile-like interfaces with full multimedia capabilities, powered by secure, reliable, and field-proven QNX technologies.

As a complementary product to the QNX Neutrino® RTOS and the QNX Momentics® Tool Suite, the QNX SDK for Apps and Media enables developers to create systems with rich user interfaces using open standards-based technologies like Qt, HTML5, and other native UI toolsets.

Complete Multimedia Support

The QNX SDK for Apps and Media offers a fully customizable, full-featured multimedia framework for building high value, media-rich solutions of all types. Different resource managers, services, and libraries perform media tasks such as detecting media stores, metadata synchronization, and playing audio and video files in a seamless and transparent way. These multimedia components form part of a robust and versatile platform that supports all types of media applications.

Superior Browser Support

The QNX SDK for Apps and Media includes a full-featured HTML5 engine with exceptionally fast performance. Performance speed is optimized through hardware-accelerated graphics processing for improved web content rendering, JavaScript execution, power consumption management, and responsive scrolling and zooming.

Integrated HTML5 Application Development

QNX SDK for Apps and Media provides a framework for developing and executing web-compatible applications, specifically using technologies such as HTML5, CSS3, and JNext. This framework based on Apache Cordova can be used to build a complete user interface or individual HTML5 apps.

Device Connectivity

Due to the inherent connectivity of the QNX SDK for Apps & Media, a single platform supports media sharing among multiple users, immediate and unique identification of media devices and streams (including mobile phones and media players), auto synchronization to databases, and multiple playback and record paths.

Qt 5 Application Framework

QNX SDK for Apps and Media support for the Qt 5 application framework provides a flexible, high-performance option for creating both apps and HMIs. The QNX-based port of Qt 5 takes advantage of OpenGL ES 2.0 hardware acceleration to deliver optimal graphics performance.

Secure App Management

Applications are launched safely and securely through the human-machine interface (HMI) or from the command line. The launcher starts, switches, and ends apps, and defines how apps interact with the system, such as event control and background execution. The authorization manager ensures that apps can only use the services they have permissions for.

Benefits

Fast Time to Market

Using HTML5 or Qt to design the system's user interface can dramatically reduce development efforts, especially when compared to designing with traditional embedded UI toolkits. With the QNX SDK for Apps and Media, developers have a common tool set to build, style, and animate applications for embedded devices, mobile devices, or applications that are hosted in the cloud.

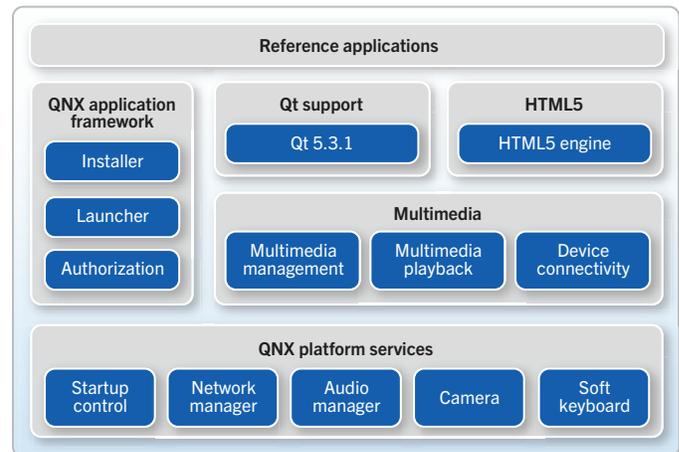
The QNX SDK for Apps and Media simplifies system design by enabling customization of a full-featured media player using an extendable database schema, configurable HMIs (remote control, touch screen), and pre-integrated DSP support. Further streamlining is enabled by using pre-built multimedia engine components that remain binary identical between projects. Supported by the secure, reliable, and high performance QNX Neutrino RTOS, the SDK lets development teams quickly bring to market the multimedia features and capabilities customers demand.

Reliable and Secure

The QNX SDK for Apps and Media provides a partitioned user interface and sandbox for ultimate reliability. With the QNX architecture you can seamlessly blend HTML5, OpenGL ES, and Qt applications with one of several supported partner HMI toolkits. Furthermore, HTML5 functionality can be further isolated in a WebView.

With the QNX sandbox approach, applications can be isolated from each other to ensure incorrect behavior of one application can't affect other applications or bring down the system. The architecture provides the flexibility to group common, core applications together

to reduce memory footprint and deploy add-on applications in their own sandbox. The SDK offers a complete application environment that features the ability to package, install, authorize, and launch applications in a controlled and secure fashion.



Architecture of the QNX SDK for Apps and Media

QNX Evaluation Kits

Prototyping on QNX is fast using pre-integrated software with support for HTML5 and Qt 5.3. Reduce time for application development. Remove integration headaches. Increase productivity by building demos quickly and evaluating performance or specific features.

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