QNX CAR Platform for Infotainment

QNX works with partners in its large ecosystem to offer the best possible foundation for building vehicle infotainment systems, as well as to help OEMs and Tier 1 suppliers reduce costs and time to market. Technologies provided by partners include:

Feature	Partners
Integrated third-party applications	Accuweather BestParking Facebook HearPlanet iHeartRadio Pandora Parkopedia Slacker Soundtracker The Weather Network TuneIn Wcities Eventseekr
Mobile connectivity	Apple Cambridge Silicon Radio Cybercom/OpenSynergy Google Mecel PacketVideo RealVNC
Automotive connectivity	Vector Informatik
Voice recognition	AT&T Watson Nuance Voicebox Technologies
HMI and frameworks	Altia Crank Software Digia Elektrobit jQuery/jQuery Mobile Rightware Sencha
Software updates	Red Bend Software
Navigation	AISIN AW Elektrobit KOTEI NavNGo Nokia Here TCS TeleNav
Multimedia technology (codecs & databases)	Fraunhofer Freescale Gracenote Microsoft Texas Instruments
Graphics and displays	Imagination Group Texas Instruments Vivante
Hardware	ARM Freescale Intel Marvell NVIDIA NXP Qualcomm Renesas Texas Instruments Vivante Xilinx

The QNX® CAR Platform for Infotainment is a unique set of pre-integrated and optimized technologies from QNX Software Systems and dozens of ecosystem partners. Designed for flexibility, this unique platform provides development teams with a variety of options for building reliable world-class infotainment systems that keep pace with ongoing advancements in mobile device markets.

The QNX CAR Platform for Infotainment offers a low-risk path for building reliable and compelling connected products that improve the bottom line. For instance, with the same code base, customers can target entry to high-end platforms, leveraging their development efforts across the multiple programs. This helps to improve the revenue-to-cost balance and reduce project risk while enabling rapid development of high quality

infotainment systems.

Reduced project risks

→ Fast proof of concept designs and ready-to-use prototype development platforms

→ Clean IP (intellectual property)

→ Visibility into QNX CAR Platform roadmap and innovations

→ Open ecosystem philosophy for supplier independence

Reduced costs and new revenues

→ Out-of-the-box, pre-integrated reference implementations that are easily productized

→ New sources of revenue for OEMs — services, app store

→ Reusable software assets

→ Scalability — the same software solution for low to high-end systems

→ Simple business model — free software during prototyping and pre-integrated third-party evaluation software

Compelling products, rapid development

→ Early access to leading-edge technologies

→ Visually rich HMIs and a customizable environment

→ Reliable, responsive user experience

→ Industry-leading support for connectivity to the latest mobile devices, standards, and apps for automotive

→ Internet connectivity

→ Upgradeability — downloadable software updates for in-field apps and firmware

Sales and marketing opportunities

Partner companies who join the QNX CAR Platform ecosystem can participate in joint QNX CAR marketing and sales initiatives, and can contribute products to the QNX CAR reference implementations. As part of these reference implementations, their products will go out to all QNX CAR Platform automotive tier-one and OEM members — a large and ever-increasing audience.

The QNX CAR Platform for Infotainment includes a wide array of QNX technologies: the QNX Neutrino realtime OS; a powerful mobile connectivity framework; a best-in-class acoustic echo cancellation and noise reduction hands-free solution; an HMI framework supporting Qt, HTML5 and other native UI toolsets; and different app environments.

To this, we've added automotive hardening for crash resiliency, embedded optimization, and fast booting.

With support for HTML5, Qt, and industry-standard .apk apps executing alongside the built-in HMI, the QNX CAR Platform supports the industry's broadest cross-platform mobile development environments, allowing OEMs to leverage a variety of apps from the consumer electronics space.

QNX technology concept car

The 2015 QNX technology concept car, based on a Maserati Quattroporte GTS, integrates an array of technologies – including sensors, cameras, navigation engines, cloud-based services, and speech interfaces.

The QNX® CAR Platform for Infotainment offers an enablement model that reduces the risks and costs inherent in developing and productizing advanced infotainment systems for the automotive market.

The QNX CAR Platform for Infotainment is available to companies building prototypes, demos, or proofs-of-concept as a yearly subscription. This program approach gives companies access to all of the pieces in the QNX CAR Platform as well as the most up-to-date technology on an ongoing basis.

Please contact us for details on the QNX CAR Platform subscription program.

Partner integrations

The QNX CAR Platform for Infotainment provides pre-assembled reference implementations, allowing companies to skip challenging first-level integration efforts and work immediately on product development and differentiation.

Partner	Integration
Apple	iPhone/iPod multimedia integration
Best Parking	location-based parking search
Digia	Qt commercialization
Elektrobit	embedded navigation
Freescale	silicon vendor
Hear Planet	internet audio streaming service
JQuery	JavaScript framework
Nuance	speech recognition
NVIDIA	silicon vendor
OpenSynergy/Cybercom	integrated Bluetooth stack and profiles
PacketVideo	DLNA stack for Android mobile device integration
Pandora	streaming internet radio
Parkopedia	location-based parking search
RealVNC	MirrorLink connectivity
RedBend	FOTA software updates
Sencha	JavaScript framework
Slacker	streaming internet radio
Soundtracker	internet music streaming service
Texas Instruments	silicon vendor
Wcities Eventseekr	location-based event service
Weather Network	integrated weather service

The QNX CAR Platform for Infotainment includes pre-integrated technology from numerous third-party technology partners. With each release, the list of partners continually grows to include additional IP such as new vehicle service offerings, HMI frameworks, applications, and hardware support.

Evaluation

A key benefit of the QNX CAR Platform program is the streamlined licensing model QNX and its partners have created. With our third party partners, QNX is able to license customers with the ability to prototype and evaluate the third party technology that is part of the platform. Any third parties, however, that do not have licensing models that fit into the QNX CAR platform model, will require customers to engage directly with these companies to secure evaluation and redistribution rights before they begin using their technology. Given that specific licensing does vary from partner to partner, we recommend contacting your sales representative for exact details.

Sublicensing and redistribution

Aside from any exceptions, customers do not need to engage with a third-party technology company until they have concluded their evaluation and plan to start commercial development for a production-based program, or to redistribute their derivative work for demonstration or commercial sale. At this point, customers need to work directly with the third parties involved to negotiate the requisite sublicensing and redistribution rights. Contact us or your QNX sales representative to introduce you to the appropriate third-party contacts.

Additional third-party integrations

While QNX automotive ecosystem includes almost 100 companies with products that work with QNX technology, some companies have yet to become part of the QNX CAR Platform program. We are working with these companies to add more integrated partner products. Until such time, customers are encouraged to continue engaging directly with these companies.

During commercial development of infotainment products using the QNX CAR Platform, customers have access to a dedicated team of QNX engineers specialized in automotive systems to help with integration and productization. These engineers are available to help design and work through even the toughest problems – everything from architecture reviews through driver development and bug fixing to advanced system-level optimization.

Commercial support

To address the mix of QNX and third-party products, and their integration into a customer product, we provide dedicated support from our experienced automotive services team. The pairing of the QNX CAR Platform with these dedicated services is designed to help customers in their adoption, development, and deployment of QNX CAR platform technology.

If you are interested in learning more about the QNX CAR Platform and our commercial support model, please contact us or your local QNX sales representative.