



# RA Ecosystem Partner Solution Qt for MCUs



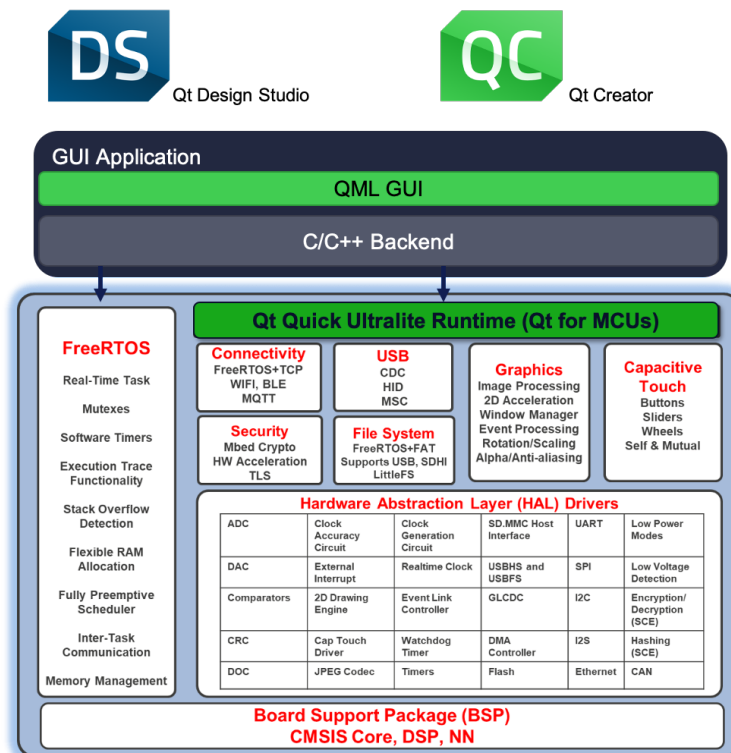
## Solution Summary

Qt for MCUs is a complete graphics framework and toolkit with everything you need to design, develop, and deploy GUIs on [RA MCUs](#). Create smartphone-like UI/UX on microcontrollers with industry leading design and development tools, ultimate performance and a tiny footprint.

## Features/Benefits

- High graphic performance and low memory footprint (runtime ~80KB)
  - Leverage 2D accelerator and JPEG decoder to provide best-in-class performance
  - Utilize GLCDC to provide flexibility on data formats
  - Support both Rendering Modes – Register Mode and Display List Mode
- Re-use software code across HW platforms from MCUs to MPUs
- Includes WYSIWYG Studio and IDE to support Design-Develop iterative cycle

## Diagrams/Graphics



## Target Markets and Applications

- HMI on display panels or touch panels in industrial/building automation
- HMI for metering devices
- HMI for white good appliances



The Qt  
Company

Create beautiful interfaces and applications with Qt.  
One framework. One codebase. Any platform.

**Qt Creator:** A cross-platform integrated development environment (IDE) built for the maximum developer experience. Qt Creator runs on Windows, Linux, and macOS, and allows developers to create applications across desktop, mobile, and embedded platforms.  
<https://www.qt.io/product/development-tools>

**Qt Design Studio:** Import 2D and 3D graphics from tools such as Sketch, Photoshop, Maya, Modo, blender. Bring your designs to life with animations made with Qt's easy-to-use prototyping tools. Instantly preview and fine-tune your designs to pixel-perfection  
<https://www.qt.io/product/ui-design-tools>

**Qt for MCUs:** Create Smartphone like UX on MCUs. High graphic performance and low memory consumption. Re-use software code across HW platforms from MCUs to MPUs  
<https://www.qt.io/product/develop-software-microcontrollers-mcu>

**Qt for Device Creation:** Create high-performance embedded systems with 3D/2D user interfaces and deploy and test on your target hardware. Extensive libraries and intuitive APIs speeds up development. Boot to Qt -- Get your environment up and running in no time with our ready-made software stack  
<https://www.qt.io/product/develop-embedded-devices>

**Qt for Application Development:** Cross-platform on desktop and mobile OSs: Code once, create more, deploy everywhere. High performance and pixel perfect UIs. Ready-made UI and backend libraries.  
<https://www.qt.io/product>

## About Us

Qt Group (Nasdaq Helsinki: QTCOM) is a global software company with a strong presence in more than 70 industries and is the leading independent technology behind millions of devices and applications. Qt is used by major global companies and developers worldwide, and the technology enables its customers to deliver exceptional user experiences and advance their digital transformation initiatives. To learn more, visit <http://qt.io>.

Qt technology is used by more than one million developers worldwide. We enable a single software code across all operating systems, platforms and screen types, from desktops and embedded systems to business-critical applications, in-vehicle systems, wearables and mobile devices connected to the Internet of Things.

The Qt Group operates in China, Finland, Germany, Japan, South Korea, Norway, Russia, the USA, France, UK, Italy and India  
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