

Qt

# Qt M2M protocols

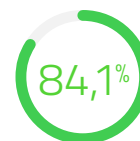
Digital Transformation sets higher requirements for the Automation industry

Industry 4.0 and the IoT have introduced new challenges: More connected devices will generate more data, which will lead to more complex software applications. The playing field will change at an exponentially accelerating pace, including the state of device infrastructure, application complexity and development.

Qt M2M protocols make IoT edge devices more performant and efficient, thanks to modular, scalable, secure Qt libraries and Qt development tools.

More information at [www.qt.io/qt-in-automation/](http://www.qt.io/qt-in-automation/)

With Qt you can achieve more



- 84.1% of our customers state that they are more productive with Qt (based on 2016 customer survey)



- Productivity of projects has as much as doubled

## Scale to any Hardware

The size of your smart device will set requirements for your software, such as low memory or power usage, or acceleration with/without graphics. Our offering can meet the requirements of any type of hardware, from low and high-end devices, up to desktops and servers.

## Design 2D or 3D HMIs – Fast and Easy

The Qt Design Tools and the Qt Creator IDE make it easy to develop 2D or 3D UIs. Use your favorite graphic or 3D design tools to create mock-ups, then export them to Qt turn them into code-based prototypes. Individual assets can be reused in different projects for a consistent look and feel.

## Accelerate Your Customer Business

Get a head start with Qt's machine communication and IoT protocols, such as MQTT, ModBus, OPC UA, that drastically simplify reliable interoperability for smart devices. WebGL technology helps enabling remote access and control for your customer.



## All-In-One Package

Our offering includes the necessary components to deliver any sort of set-up, independent of platform used, individual end-solutions or number of shipments.

Qt for Automation extends Qt's comprehensive portfolio of Application Development for desktop, and Device Creation for embedded devices. Our offering has out-of-the-box support for machine communication and IoT protocols.

### Kick-start your project with Qt Professional Services

Qt for Automation includes a part of engineering services to help you initiate your project. Whether you want to create a proof-of-concept, define architecture, verify initial setups or even review your recent code, Qt engineers specialized in the automation industry are here to help.

### Integrated Development Environment (IDE) & Tools

Qt Creator comes with a wide range of tools, so you can design your UI, write your code and much more in one cross-platform IDE. Feel like prototyping? Just press play.

### Professional Services and Support

- Customized professional services
- Full support
- Training

### Qt Meets Industrial Requirements

Develop faster and smarter with Qt's Intuitive and comprehensive libraries. Never worry about dependencies: We are updating and future-proofing constantly!

- ✓ **Fast prototyping:** Boot2Qt and Qt Design Studio enhance the workflow for designers and developers with live preview features, Photoshop export tool, and more.
- ✓ **Remote UI on the browser:** Access and control your UI remotely with Qt VNC, Qt Remote Objects, Qt WebGL, Qt for WebAssembly.
- ✓ **Integrating cloud solutions** with Qt MQTT
- ✓ **Connectivity for Industry 4.0** with Qt OPC UA and Qt Serial Bus
- ✓ **Connectivity for Smart Infrastructure** with Qt CoAP
- ✓ **Scalability:** Run Qt applications on wide range of devices, from microcontrollers (MCU) to high-end set-ups.

### Wide Cross-Platform Support

#### Embedded:

- Embedded Linux
- QNX
- INTEGRITY
- Windows
- VxWorks

#### Desktop:

- Windows
- Linux
- macOS

#### Mobile:

- Android
- iOS
- Windows



The Qt Company develops and delivers the Qt development framework under commercial and open source licenses. We enable the reuse of software code across all operating systems, platforms and screen types, from desktops and embedded systems to wearables and mobile devices. Qt is used by approximately one million developers worldwide and is the platform of choice for in-vehicle digital cockpits, automation systems, medical devices, Digital TV/STB and other business critical applications in 70+ industries. With more than 250 employees worldwide, the company is headquartered in Espoo, Finland and is listed on Nasdaq Helsinki Stock Exchange. To learn more visit <http://qt.io>