

STMicroelectronics, Northern.tech (creators of Mender), Qt Group, and The Embedded Kit join forces to deliver production-ready software for the STM32MP25 at Embedded World 2024

Nuremberg, April 9, 2024. Today, at Embedded World, prominent names in the embedded ecosystem – Qt Group, Northern.tech (creators of Mender), STMicroelectronics, and The Embedded Kit – announced a collaboration, introducing a comprehensive software and hardware solution designed to accelerate equipment manufacturers’ path to production.

“At The Embedded Kit, we believe in simplifying embedded software development and cybersecurity”, states Pierre Gal, Head of Product Development at The Embedded Kit. “This strategic collaboration represents a significant leap forward, equipping device makers with a comprehensive set of tools to accelerate their product development and facilitate easy maintenance.”

Delivering a ready-for-production embedded solution

Traditionally, equipment manufacturers research, source, and integrate required solutions individually – exponentially increasing the time and resources required to get a product to market. With already overlapping customer bases, this new collaboration and package removes the time and effort required for equipment manufacturers.

Paul Nieminen, Head of Partnering at Qt Group, explained: “Over the years, we've observed that equipment manufacturers are increasingly focused on developing applications atop their embedded systems. Together, we are facilitating a more streamlined development journey, empowering businesses to concentrate on what truly matters – innovation and application development.”

The new collaboration delivers a ready-for-production package with all the essential features equipment manufacturers need to build and maintain industrial embedded systems atop the STM32MP25 family of products. Capitalizing on and combining partners’ specialized expertise, the package includes:

- **A Linux distribution** – pre-integrated STM32MP25 board support package (BSP) based on Yocto
- **An over-the-air (OTA) update solution** – robust infrastructure for secure and reliable updates
- **Quality and security assurance system** – automated testing and CVE scanning solution to ensure robustness and security throughout the lifecycle of the products
- **User application development features** – integrated capabilities to plan, design, test, and future-proof user interfaces
- **STM32MP25 board compatibility** – ready for production in industrial products and supporting AI capabilities.

"With a longstanding commitment to delivering secure and reliable remote updates, Mender enables OEMs to deploy and manage their devices with confidence," comments Trond Hermansen, Head of Partnership & Customer Success for Mender. "Today, we reinforce this promise by integrating our solution into this common ready-for-production and maintenance software package."

"This collaboration marks an exciting milestone for STMicroelectronics. By teaming up with Mender, Qt Group, and The Embedded Kit, we not only deliver a robust solution but also amplify the momentum and success of our STM32MP25 family in the embedded industry," said Vincent Desespringalle, MPU Ecosystem Marketing Manager at STMicroelectronics.

The collaboration between STMicroelectronics, Northern.tech's Mender, Qt Group, and The Embedded Kit represents a significant step forward in providing the embedded industry with a powerful, all-encompassing solution to streamline development processes, reduce time-to-market, and enhance overall efficiency.

About The Embedded Kit

The Embedded Kit offers the comprehensive software toolkit that equipment manufacturers need to build, connect, test, and secure custom embedded Linux systems, in-house. The Embedded Kit tooling ecosystem comprises four off-the-shelf, customizable, and vendor-lock-free software products: a Yocto-based Linux distribution & DevOps platform, an IoT device management platform, an automatic embedded testing tool, and a software composition analysis (SCA) and vulnerability monitoring tool.

As a Witekio company, The Embedded Kit encapsulates over two decades of experience supporting device makers, empowering them in the development and maintenance of industrial-grade and secure systems.

To learn more, visit TheEmbeddedKit.io.

About STMicroelectronics

At ST, we are over 50,000 creators and makers of semiconductor technologies mastering the semiconductor supply chain with state-of-the-art manufacturing facilities. An integrated device manufacturer, we work with more than 200,000 customers and thousands of partners to design and build products, solutions, and ecosystems that address their challenges and opportunities, and the need to support a more sustainable world. Our technologies enable smarter mobility, more efficient power and energy management, and the wide-scale deployment of cloud-connected autonomous things. We are committed to achieving our goal to become carbon neutral on scope 1 and 2 and partially scope 3 by 2027.

To learn more, visit st.com.

About Qt Group

Qt Group (Nasdaq Helsinki: QTCOM) is a global software company, trusted by industry leaders and over 1.5 million developers worldwide to create applications and smart devices that users love. We help our customers to increase productivity through the entire product development lifecycle: from UI design

and software development to quality management and deployment. Our customers are in more than 70 different industries in over 180 countries. Qt Group employs some 800 people, and its net sales in 2023 were 180.7 MEUR. To learn more, visit www.qt.io.

About Mender

Mender offers robust, secure, and customizable over-the-air (OTA) software updates for smart devices. Powering OTA software updates for more than a million devices worldwide over nearly a decade, Mender boasts a proven track record with Fortune 1000 clients, including Airbus, Lyft, Volkswagen, Siemens, Thales, and ZF Group.

Learn more about OTA software update management at [Mender](#).

Mender is developed and maintained by Northern.tech. Founded in 2008, Northern.tech is the leader in device lifecycle management with a mission to secure the world's connected devices.