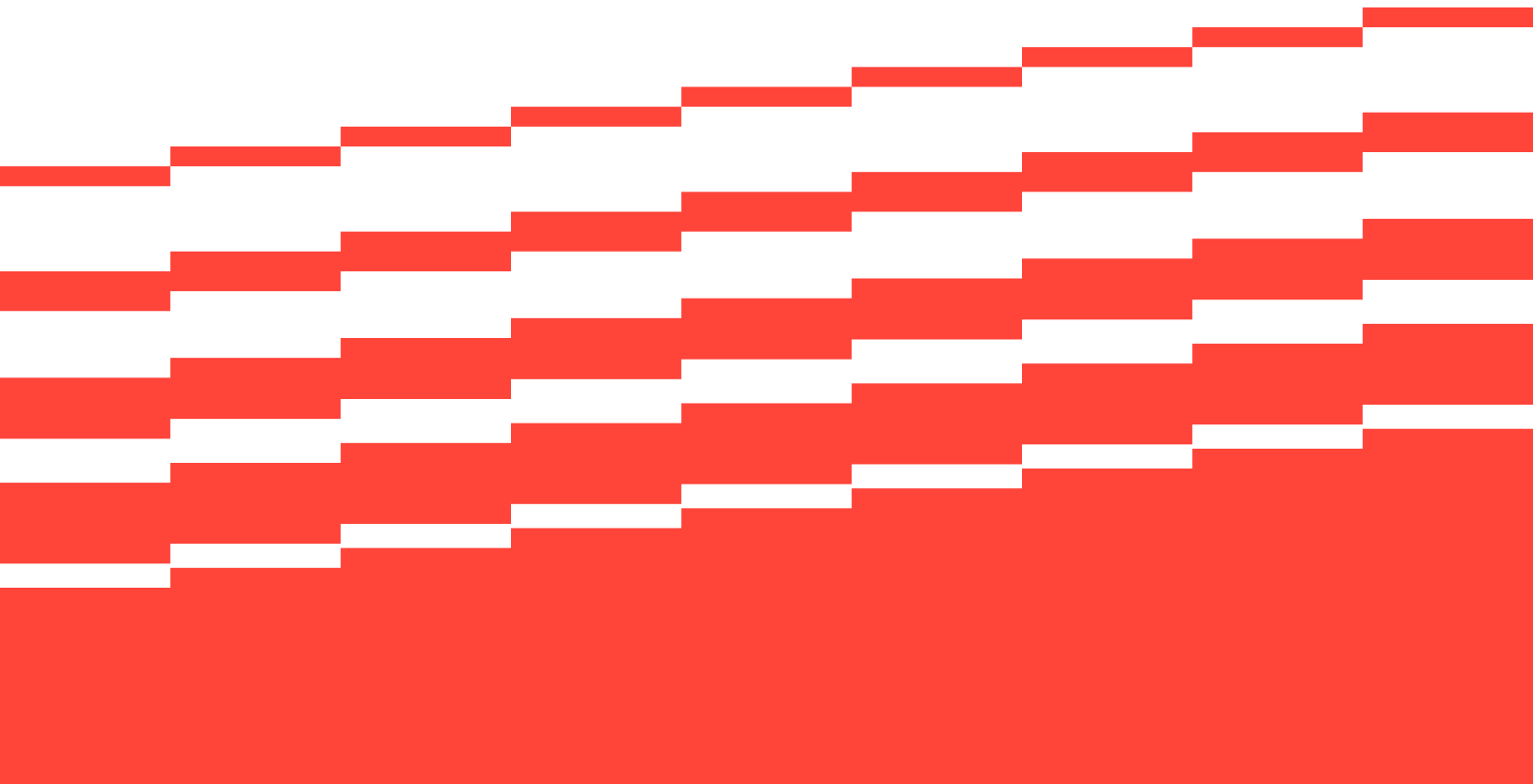
QNX

Solution Brief

QNX Accelerate

QNX Foundational
Software in the Cloud



QNX Accelerate

QNX® Accelerate is an initiative that lets you develop mission-critical embedded systems based on QNX® technology in the cloud. Enable better collaboration, time to market and improve efficiencies by harnessing the agility, speed and scale of the cloud.

Accelerate Time-To-Market For Mission-Critical Embedded Products With Cloud-Enabled Real-Time Reliability And Functional Safety

To meet modern consumer expectations, companies must increasingly adopt software practices like high-performance computing, over-the-air updates, machine learning, and continual integration. However, relying on embedded targets prevents developers from fully embracing these new paradigms. This reliance on costly and scarce embedded targets is why BlackBerry QNX launched QNX® Accelerate.

QNX Accelerate is an initiative that provides robust and field-proven QNX® OS technology in the cloud, helping customers build mission-critical embedded systems through accelerated time-to-market and scaled-up development teams—all without target-hardware dependencies.

It brings the field-proven reliability of the QNX portfolio of products driving performance, security and scalability to develop complex intelligent edge devices in multiple industries, including automotive and commercial vehicles, medical equipment, industrial controls, robotics, and automation.

The products, come as Amazon Machine Image (AMIs), allowing licensed customers to run a QNX OS or QNX Hypervisor natively on Amazon Web Services (AWS) cloud hardware. In addition, QNX OS and QNX Hypervisor are also supported on Microsoft Azure.

Bring Modern Best Practices to Your Embedded Development and Innovate Faster

Ideal for Engineering Teams Looking To Maximize Efficiency and Improve Product Agility

By providing an architecturally compatible development target in the cloud, QNX Accelerate decouples software development from embedded targets to solve availability issues. CI/CD test servers can spin up new instances on-the-fly, ensuring developers don't have to wait for test results. Engineers can also take advantage of speed, scale, and quality arising from best practice development.

Rapidly Innovate and Accelerate Time To Market With Cloud-Native Software

Because it uses cloud-native methodologies, QNX Accelerate allows engineers to rapidly adapt their products to new customer demands without compromising functional safety, high reliability, or cybersecurity. Cloud capabilities also let managers scale engineering resources up and down as needed, allowing them to react quickly to market changes and derive innovative results sooner.

Benefits of QNX Technology in the Cloud

QNX portfolio of products including but not limited to:

- QNX Neutrino Real-Time Operating System
- QNX Operating System for Safety
- QNX Hypervisor

Boost Collaboration

Enable globally dispersed teams to collaborate, access and share resources in real time.

Improve Development Efficiency

Minimize hardware dependence, integrate CI/CD pipelines and scale development and testing resources as needed.

Increase Competitiveness

Focus on innovation, not infrastructure, while reducing time-to-market.

Build Mission-Critical And Functionally Safe Products Without Compromise

Develop Mission-Critical Embedded Products in the Cloud

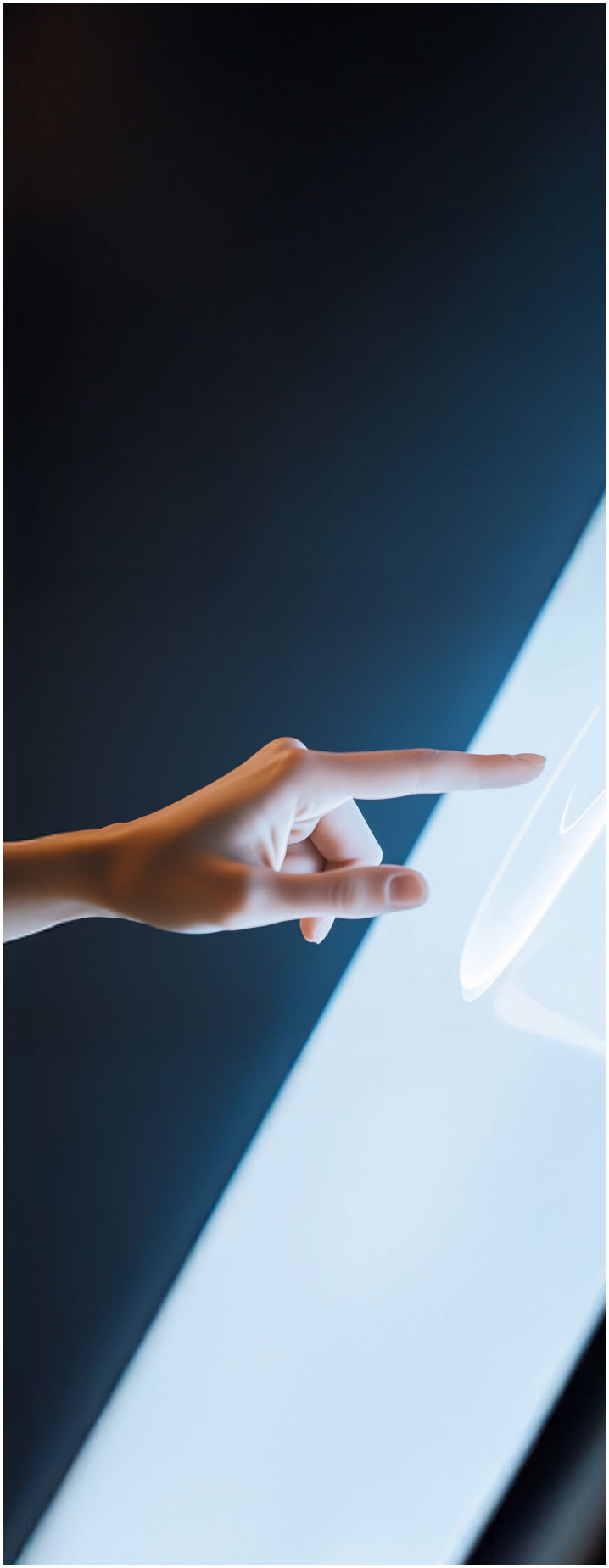
Improve your development process and accelerate time-to-market with cloud-enabled workflow efficiencies and modern development practices like CI/CD and agile development. Create products developed in the cloud, run on embedded hardware, and meet relevant functional safety and cybersecurity standards. Emulate sensors and other hardware target peripherals with third-party software.

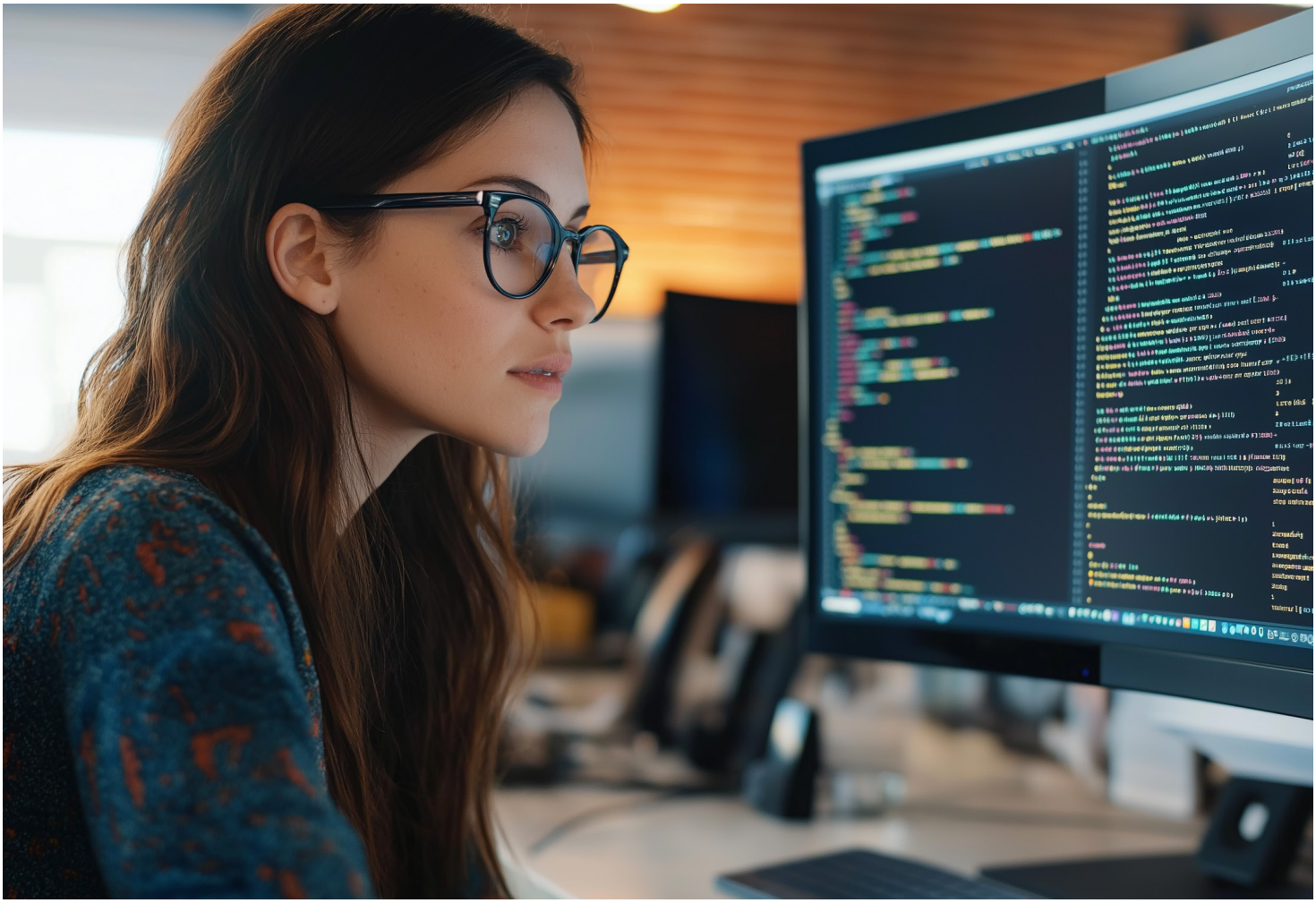
Scale-Up Development Teams

Grow your engineering capability by sharing identical development environments between companies, suppliers, and contractors. Quickly onboard development team members by spinning up new duplicate development environments, launching one or multiple instances per user, and sharing any number of instances. Share virtual test targets where developers can collaboratively debug. Automate development and testing flows.

Break Target-Hardware Dependencies

Start target testing early without waiting for scarce hardware resources. Cut down on physical hardware inventories, reducing both setup and logistics costs. Launch additional virtual targets in the test environment to shorten the time developers wait on tests and ensure they can run tests more regularly. Better manage development budgets by paying for only the resources being used without up-front expenditures.





Getting Started

Start using the BlackBerry QNX real-time operating systems and safety-certified operating system in the AWS cloud and Microsoft Azure today. Access these solutions through the AWS Marketplace or the Microsoft Azure Marketplace by clicking on the link below. Once on the Marketplace site, choose the appropriate subscription type—hourly for as-needed use or annual for discounted long-term access. Don't forget to refer to the Getting Started Guide, which covers the important aspects of configuration and operation. Get started with QNX operating systems in the cloud today.

Get started with QNX operating systems on AWS cloud →

Get started with QNX operating systems on Microsoft Azure →

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QNX

About QNX

QNX, a division of BlackBerry Limited, enhances the human experience and amplifies technology-driven industries, providing a trusted foundation for software-defined businesses to thrive. The business leads the way in delivering safe and secure operating systems, hypervisors, middleware, solutions, and development tools, along with support and services delivered by trusted embedded software experts. QNX® technology has been deployed in the world's most critical embedded systems, including more than 255 million vehicles on the road today. QNX® software is trusted across industries including automotive, medical devices, industrial controls, robotics, commercial vehicles, rail, and aerospace and defense. Founded in 1980, QNX is headquartered in Ottawa, Canada.

Learn more at qnx.com →