

RZ Ecosystem Partner Solution

Canonical Ubuntu OS



Solution Summary

Ubuntu is the open source OS that delivers the benefits of community, cutting-edge technology and enterprise-grade assurance to your whole stack. Published and maintained by Canonical, Ubuntu is a platform for stability and standardization, enabling developers to use the same consistent, interoperable environment across different kinds of hardware. Ubuntu Core is an immutable variant optimized for Internet of Things (IoT) and secure edge embedded systems, offering automated updates, a minimal footprint, and robust security features. Canonical regularly tests and certifies Ubuntu for the latest pieces of hardware. Innovate with optimized Ubuntu images for [Renesas RZ MPUs](#) and scale rapidly, by drawing on Ubuntu's rich package ecosystem and the stability that official certification offers. An optimized image preview is available for [RZ/G2L MPUs](#).

Features/Benefits

- **Interoperability:** Ubuntu offers the same enterprise-grade features and performance from the desktop, to the public cloud and the edge
- **A rich ecosystem:** Ubuntu releases with the latest toolchains for Python, Rust, Ruby, Go, PHP and Perl, and users get first access to the latest updates for key libraries and packages
- **Reliability:** Ubuntu follows a predictable release cadence, with long-term support (LTS) releases every 2 years, and 5 years of security maintenance for the operating system
- **Enterprise-grade support:** Ubuntu Pro for Devices extends security maintenance to over 36,000 open source packages, for up to 12 years. Benefit from automation tools for hardening in line with FIPS 140, DISA-STIG, and the Cyber Resilience Act

Diagrams/Graphics



Robust security features



Device management



Straightforward containerization



Reliable hardware

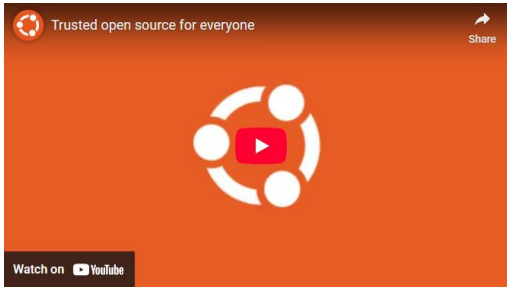
Target Markets and Applications

- Industrial
- Robotics
- Healthcare
- Smart home
- Smart city
- Digital signage
- In-vehicle infotainment

www.ubuntu.com/download/renesas-iot

Build. Secure. Scale.
Start with Ubuntu and get trusted open source across your stack.

Helping innovators
 build the future since 2004



Canonical, the publisher of Ubuntu, provides open source security, support and services. Our portfolio covers critical systems, from the smallest devices to the largest clouds, from the kernel to containers, from databases to AI.

With customers that include top tech brands, emerging startups, governments and home users, Canonical delivers trusted open source for everyone.

Community is in our DNA



Canonical's story is closely linked to the communities that shape us, including the global community of open source contributors and enthusiasts who are part of our team.

Together, we enable organizations and end users everywhere to innovate with confidence on the largest supported collection of open source software.

The Canonical portfolio	Our portfolio helps you untangle complexity in modern software development and operations. It offers a set of building blocks that cover the full technology stack - from the OS to applications.
Build with confidence. Build on Ubuntu	Bring harmony to your stack from the desktop to the edge with Ubuntu, the OS that innovators have in common
Ubuntu Core	A fully containerized OS, built with strict immutability
Ubuntu Pro	Security and compliance on top of Ubuntu LTS up to 12 years
Certified Hardware	Innovate with hardware that is tested by Canonical
Data solutions	Optimize data management and streaming with supported open source databases
Simplify your enterprise AI journey	Enjoy the freedom of open source, with the best support and economics for AI projects

Build the future of tech with Canonical.
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