ESPRESSIF

Rust

Rust is more than a programming language, it's a revolution in systems programming. Designed for speed, reliability, and memory safety, it empowers developers with modern tools and high performance.

Supported by a passionate community, Rust fosters collaboration, sets industry standards, and drives open-source innovation. At its core, Cargo simplifies package management, making it seamless to build, distribute, and integrate Rust libraries, or crates.

Join the Rust community and be part of the future of safe, high-performance programming!

Rust no-std for Espressif Devices

Espressif is bringing Rust to its **ecosystem**, embracing its **speed**, **safety**, and **modern development practices**. More than just support, we're building a complete system with tooling, documentation, and community collaboration to empower developers.

- esp-hal
- esp-backtrace
- embassy
- espflash
- esp-radio
- esp-println
- async
- probe-rs

Supported SoCs

With a no-std approach, we're optimizing Rust for embedded systems. Leading the way is **esp-hal**, our first official Rust crate, now at **version 1.0** the first of its kind in the embedded Rust ecosystem. This marks the beginning of a robust Rust experience on Espressif hardware.

- ESP32
- ESP32-S
- ESP32-C
- ESP32-H

Get started today!

Ready to **explore Rust** on Espressif hardware? Check out the documentation and start building with esp-hal today!

Explore more at:
https://docs.espressif.com/projects/rust/

 www.espressif.com

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for more information please visit https://developer.espressif.com/resources/