

# MODBUS

## PROTOCOL STACK

Production-ready Modbus Server & Client stack, fully compliant with the Modbus Application Protocol Specification v1.1, supporting Modbus RTU, ASCII, & TCP/IP modes across bare metal & various OS platforms.



-  **Lightweight**
-  **MISRA-C Compliant**
-  **Royalty-Free**
-  **No-Code with Flint**
-  **Field Proven**

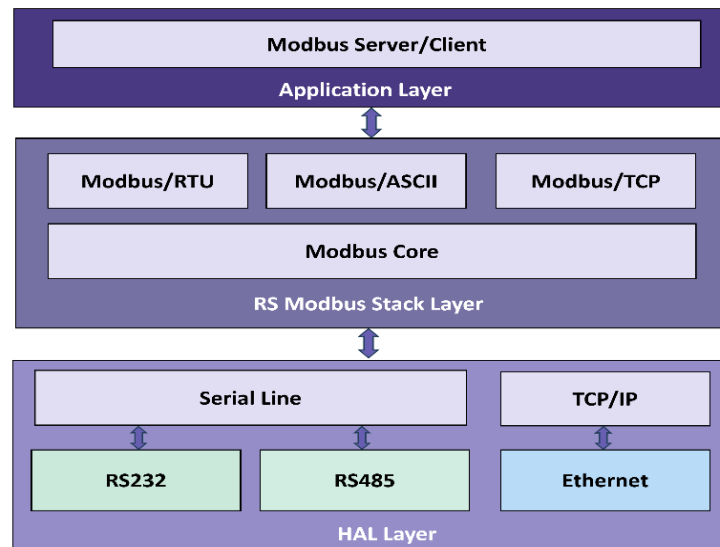
### Key Features

-  **Proven Design:** MISRA-compliant C implementation with thread-safe APIs and static memory allocation.
-  **Small Footprint:** Requires less ROM and RAM, making it ideal for resource-constrained embedded systems.
-  **Simple Licensing:** Royalty-free licensing model for flexible deployment across multiple products.
-  **Enhanced Reliability:** Built-in timeout management, error handling, and broadcast communication support.
-  **No-Code Development:** Configure stack through Flint and generate deployable code without manual coding.

### Applications

-  Programmable Logic Controllers
-  Variable Speed Drives
-  Human Machine Interfaces
-  Data Acquisition Systems
-  Industrial Gateways
-  Industrial Controllers

### Technical Architecture



### Why Choose RAPIDSEA?

- ✓ 16+ Years of Embedded Engineering Expertise
- ✓ Production-Ready & Field-Proven Stacks
- ✓ Standards-Compliant Implementations
- ✓ Accelerated Integration & Faster Time-to-Market
- ✓ Scalable Across Diverse Embedded Platforms
- ✓ Expert Technical Support at Every Stage
- ✓ Trusted by OEMs & Embedded Product Developers

### Supported Platforms



### OS Support



### Validated with



### Deliverables

- ✓ Source Code
- ✓ User Manual
- ✓ Quick Start Guide
- ✓ API Reference Manual
- ✓ Release Notes



**Build Reliable Modbus  
Solutions with RAPIDSEA.**



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