

# RA Ecosystem Partner Solution

## MODBUS TCP/IP Industrial Communication Stack



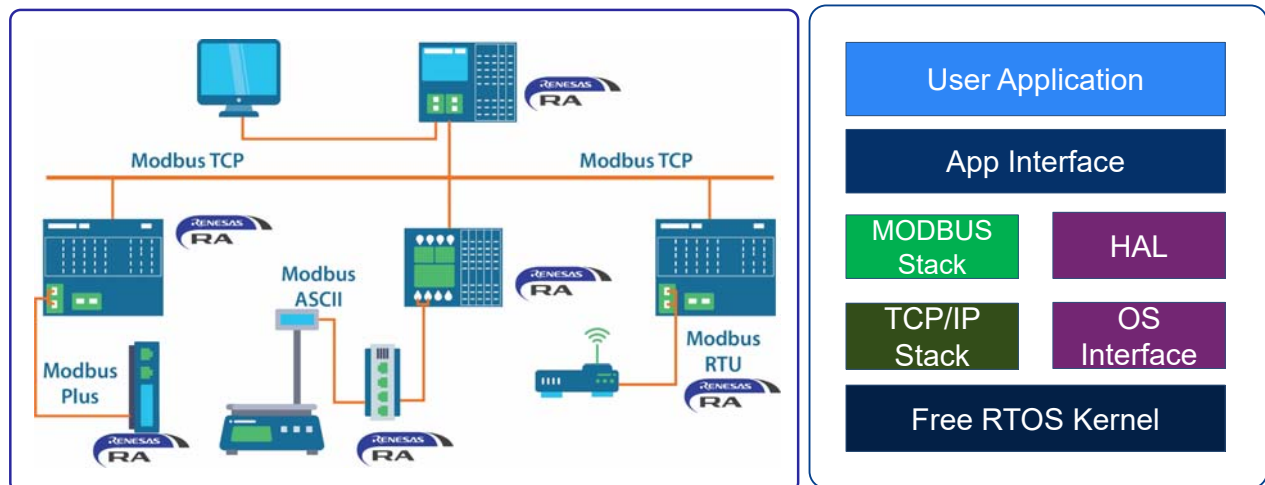
### Solution Summary

Modbus® is an industrial Transmission Control Protocol (TCP), vendor – neutral communication protocol intended for supervision and control of automation equipment and used for remote monitoring and control applications. This portable embedded stack describes a Modbus TCP server & client implementation and how it can be extended in a Modbus application. The demo application software was developed using Utthunga’s TCP/IP stack. Although the software was developed and ported on Renesas [RA6M4 MCU](#), it is easily ported to other Renesas [RA microcontrollers](#) that support TCP/IP functionality.

### Features/Benefits

- Portable Stack with options of TCP/IP Stack and OS
- Application interface layer will enable modular structure to work with different app
- Compatible with 8/16/32 bit MCU
- Tested and Ported Code base Available with FREE RTOS and RA6M4 Series MCU

### Diagrams/Graphics



### Target Markets and Applications

- Industrial IoT
- Industrial I/O Module interface
- Protocol Convertors
- IoT Gateway

<https://utthunga.com/>

## utthunga Profile

Utthunga Technologies is a leading Product Engineering and Industrial Solutions company that develops cutting-edge digital products and solutions for industrial OEMs, Industries, ISVs, and Service Providers. Some of the areas where Utthunga is been a dominant name over the years are software development, firmware & hardware development, IIoT applications, IT-OT integration, field device integration, industrial communications, security engineering, and testing services. Our services and solutions have been highly popularized across the industries like Process, Factory, Power, Building, and Mobility.



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