Modbus TCP/IP Industrial Ethernet Protocol Software

MODBUS-TCP-INDUSTRIAL-COMMUNICATIONS-

SOFTWARE

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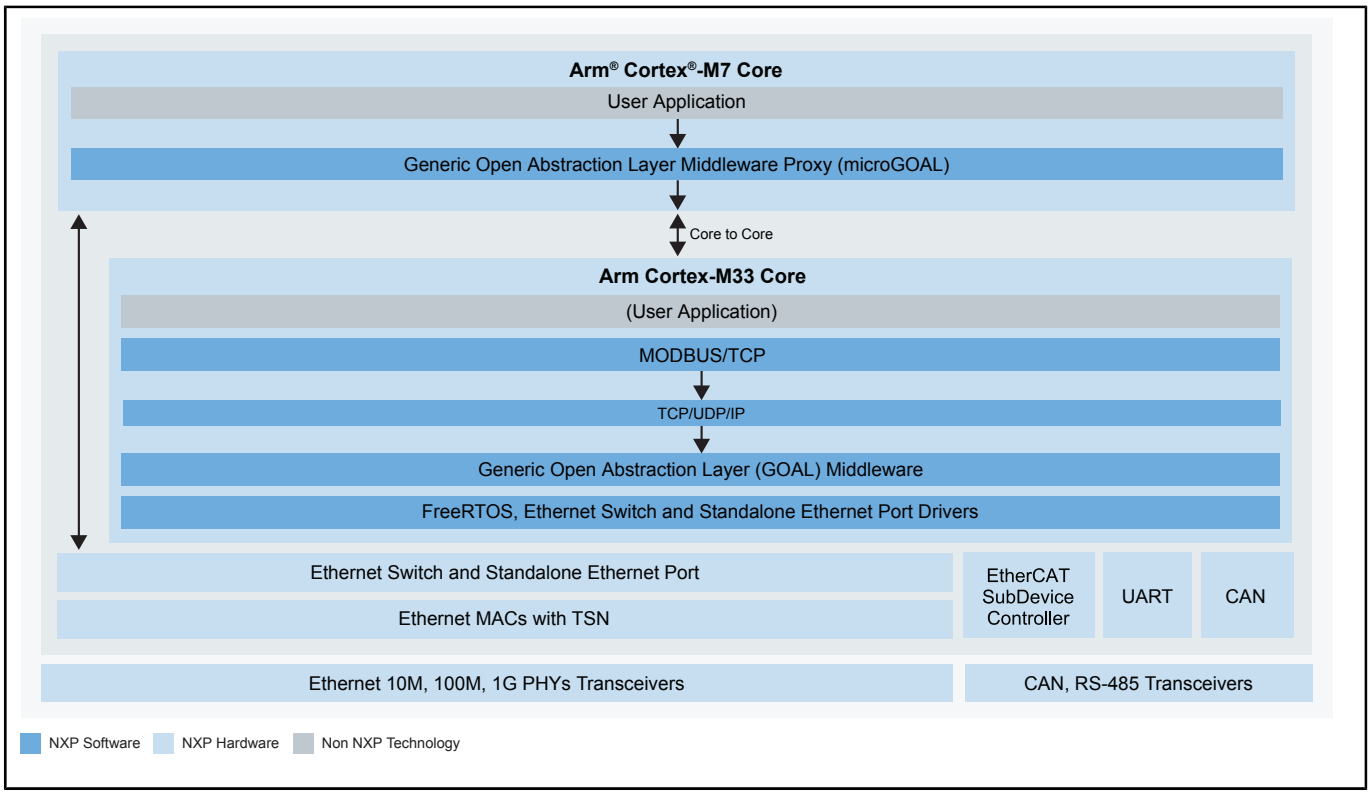
Modbus® transmission control protocol/internet protocol (TCP/IP) is an open Ethernet-based communication protocol widely used in industrial automation to enable data exchange between controllers, sensors and devices, typically over TCP port 502.

It encapsulates standard Modbus remote terminal unit (RTU) frames within TCP/IP packets, enabling faster communication speeds (10/100 Mbit/s or higher) compared to traditional serial networks. The generic open abstraction layer (GOAL) Modbus TCP/IP stack enables a TCP server implementation supporting the most commonly used function codes.

Modbus TCP/IP Industrial Ethernet Protocol Block Diagram



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