



DeviceManager

Serial communication manager connects with devices via RS232/485

Gateway/data acquisition units that handle multiple peripheral serial interfaces, support multiple protocols like MODBUS, PROFIBUS (or any legacy protocol), and have no limits connecting several varied serial devices. TFDeviceManager is a serial communication manager that can connect, identify, and communicate with external devices through RS232/485 interfaces. The external serial devices can include valves, light panels, fans, touch screen user interfaces, or other items that drive functional user actions.



Reduce the turnaround time of serial module development



Accelerate new product development initiatives



Supports different types of gateway devices with or without IoT

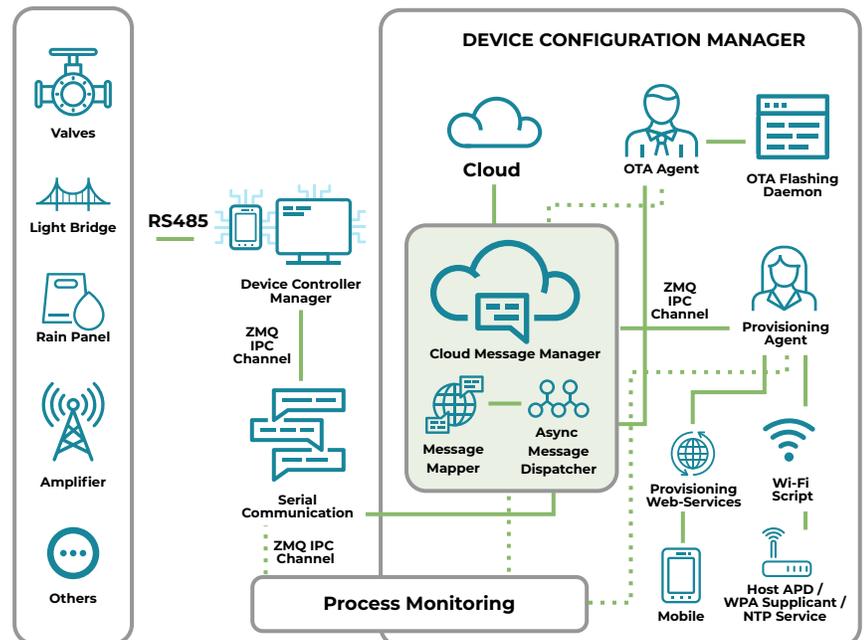


Gain extra flexibility for product engineering teams

FEATURES

- Connects, identifies, and communicates with external devices through RS232/485 interfaces
- Acts as a standalone component developed on processors like Coldfire MCF54416, TI (Texas Instruments) AM335x, AM4378, etc., to handle serial communication between multiple peripherals
- Encompasses a generic C Wrapper Library for serial communication
- Supports protocols like MODBUS, PROFIBUS, etc.
- Can interface a maximum of 6 serial ports and hence 6 different peripherals
- Support for multiple protocols like MODBUS, PROFIBUS (or any legacy protocol)

SERIAL COMMUNICATION MANAGER



40%

reduction in module development

6

serial ports

6

different peripherals

BENEFITS



Get to market faster and reduce serial communication development time



Reduce turnaround time accelerate serial module development



Increase modularization of components with faster new product development



More flexibility reduces development time with configuration library



More use cases give product engineering teams more agility

USE CASES



Connect legacy devices

Supports different types of gateway devices with or without IoT.



Build stand-alone systems

Can also run as a stand-alone system or with any connected system.



Connect consumer products with IIOT gateways

More flexibility and communication with varied types of peripherals.

SECURITY & COMPLIANCE

- Highly secure platform
- Unit has the option of signing the boot image
- Data transmission happens through secure exchange of AES secret key using RSA public and private keys
- Integrity of the message protected using SHA algorithm
- Debug port is protected with passwords-based access

TECHNICAL INFO

Processors

Acts as a standalone component developed on processors like ColdFire MCF54416, TI (Texas Instruments) AM335x, AM4378, etc.)

Protocols

MODBUS, PROFIBUS, and legacy protocols, etc.

Ports

A maximum of 6 serial ports and 6 different peripherals

External devices

Connect, identify, and communicate with external devices through RS232/485 interfaces

ABOUT THOUGHTFOCUS

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