

RENESAS

R-IN32M4-CL3 USE CASE

RENESAS ELECTRONICS CORPORATION
SYSTEM SOLUTION DEPARTMENT
INDUSTRIAL AUTOMATION BUSINESS DIVISION
IOT AND INFRASTRUCTURE BUSINESS

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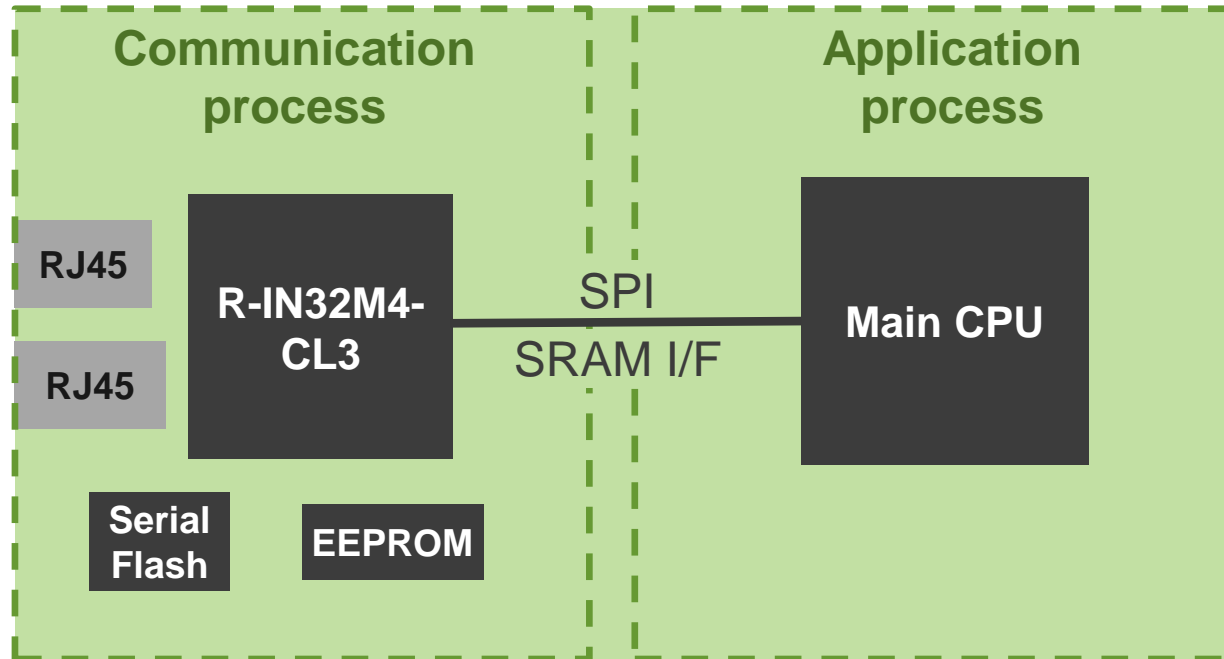
AGENDA

- Target application①
- Target application②
- WINING COMBINATION

TARGET APPLICATION①

R-IN32M4-CL3 IS USED FOR COMMUNICATION PROCESSING

Main CPU handles application process. R-IN32M4-CL3 handles communication process.
Between 2 CPUs can be connected with SPI or SRAM I/F.



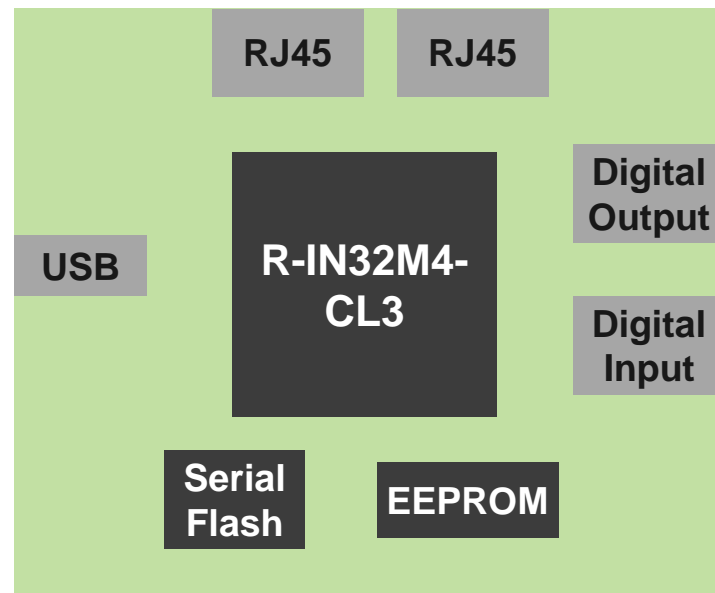
Application examples :

- Motor controller(AC servo, inverter)
- PLC
- Gateway
- motion controller
- machine controller
- mass flow controller
- robot
- machinery

TARGET APPLICATION②

R-IN32M4-CL3 HANDLES COMMUNICATION PROCESS AND APPLICATION PROCESS

Communication process and application process are handled by built-in Arm® Cortex®-M4 100MHz.



Application examples :

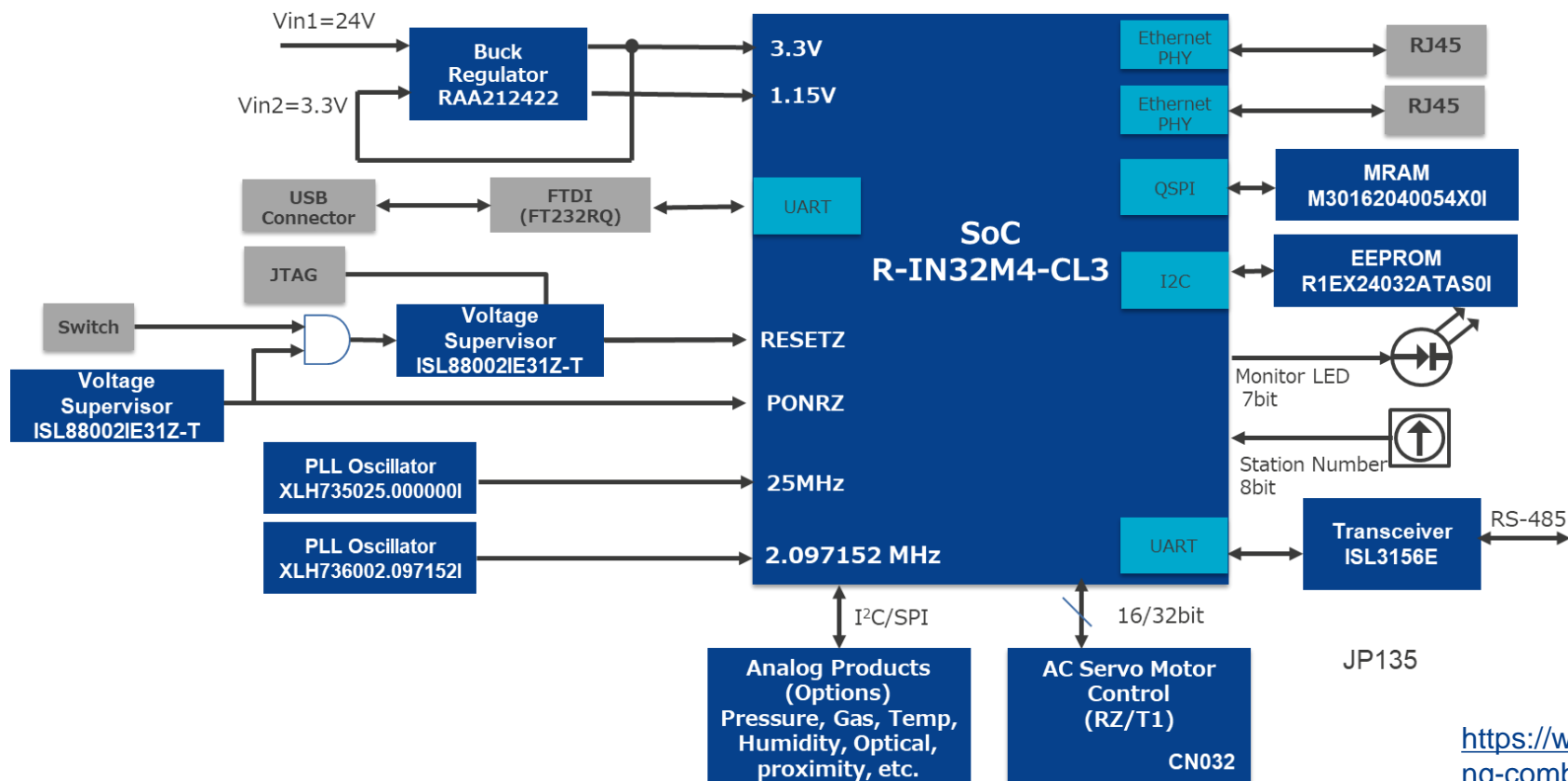
- Remote I/O
- communication module
- valve controller
- temperature controller
- actuator
- sensor equipment

WINING COMBINATION

CC-Link IE TSN Solution (JP135)

Benefit:

The R-IN32M4-CL3 complies with the CC-Link IE TSN Class B standard. It features an Renesas R-IN engine, Gigabit Ethernet PHY and 1.3MB of RAM for Ethernet communication. This enables high-speed, large-capacity communication without a software real-time operating system and external parts.



<https://www.renesas.com/us/en/application/winning-combinations/cc-link-ie-tsn-solution>

[Renesas.com](https://www.renesas.com)