

# RX72M for Industrial Applications

## Vector Control of Stepping Motor with Resolver via EtherCAT

### For Evaluation System for Stepping Motor with Resolver



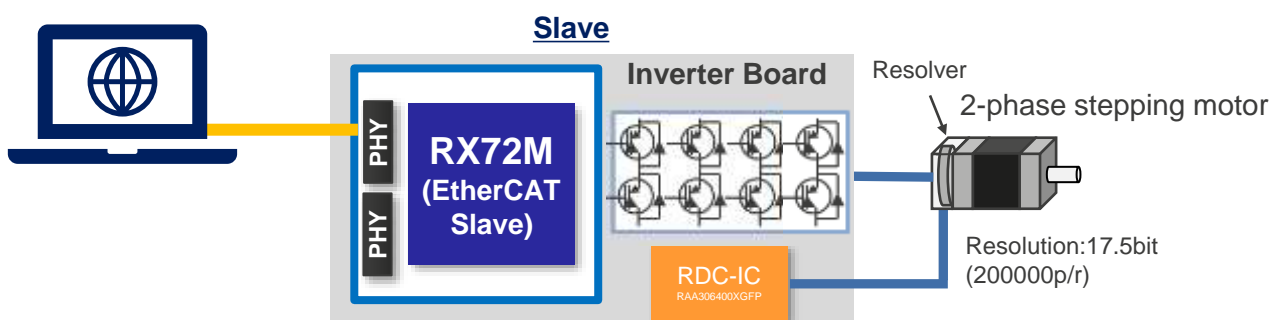
#### Overview

This solution is the RX72M with built-in EtherCAT® slave controller that provides a slave solution for high-speed communication and high synchronous control performance, also realizes EtherCAT® communication and stepping motor with resolver control as a single chip. Best for BOM cost reduction and space saving, contributing to shortening development time.

#### Key Features

- RX72M with built-in EtherCAT® slave controller is implemented resolver vector control software to realize motor control and EtherCAT® communication as a single chip.
- EtherCAT® complies with CiA402 drive profile, provides synchronous and high performance.
- Application Note and Sample Code can be downloaded free of charge from the Web. Easily try out the evaluation.

#### Block Diagram



#### Target Markets and Applications

- Industrial Robot
- Motion Controller
- PLC
- CNC

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#### Recommended Product · Solution

Category	Product/Solution	Overview
Micro Controller	<a href="#">RX72M</a>	240MHz(RXv3 core), 4MB Flash, 1MB RAM
RX72M CPU Card	RX72M CPU Card with RDC-IC	CPU Card for Motor control with RX72M
Solution Kit	<a href="#">Evaluation System for Stepping Motor with Resolver   Renesas</a>	Evaluation system for resolver digital converter (RDC) IC. Using the included 48V inverter board, stepping motor with resolver and cables.

#### Web · Documents

Category	Web
Solution Web site	<a href="#">RX72M Network Solution   Renesas</a>
	<a href="#">Motor Control Solutions   Renesas</a>
Application Note	Vector Control of Stepping Motor with Resolver via EtherCAT (Doc: R01AN6294xx0100)
Sample Code	Vector Control of Stepping Motor with Resolver via EtherCAT (Need My Renesas registration)

