RX72M for Industrial Applications
Vector Control of Stepping Motor with Resolver via EtherCAT
## For Evaluation System for Stepping Motor with Resolver

RENESAS RX

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 build-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 change from the Web. Easily try out the evaluation.

Block Diagram
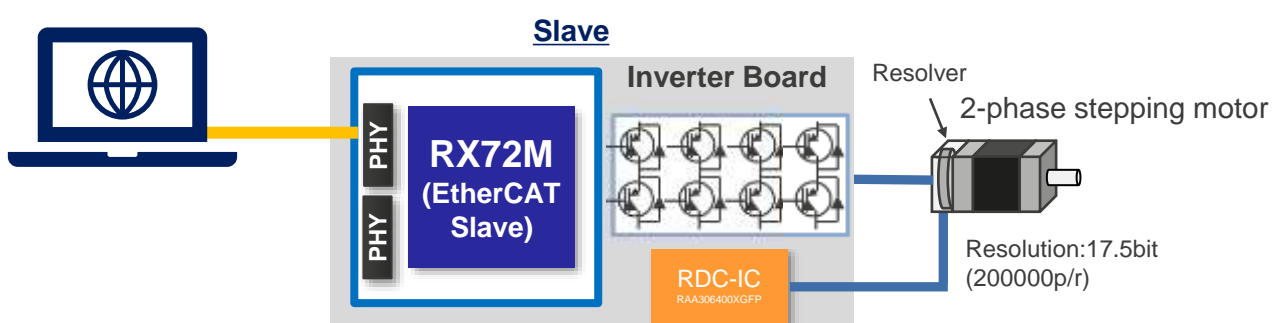
Target Markets and Applications

• Industrial Robot
• Motion Controller

• PLC
• CNC

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Recommended Product・Solution

Category	Product/Solution	Overview
Micro Controller	RX72M	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	Evaluation System for Stepping Motor with Resolver | Renesas	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	RX72M Network Solution | Renesas
	Motor Control Solutions | Renesas
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)