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Evaluation System for Stepping Motor with Resolver

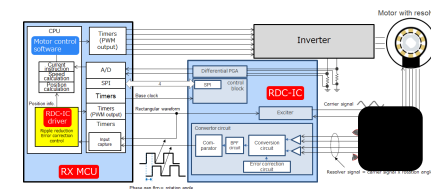
This solution kit allows you to easily evaluate and study the RX family and resolver to digital converter (RDC) ICs provided by Renesas. A stepping motor with resolver is included, and evaluation can be started immediately after purchasing the kit using software that can be downloaded from the web.

Kit Features

- Stepping motor servo control kit, which performs stepper motor servo control using an inverter circuit based on current and position feedback information.
- A board equipped with the R17PMK440CNVA4438 stepping motor with resolver sensor manufactured by MinebeaMitsumi Inc. and the RAA3064002GFP resolver-to-digital converter manufactured by Renesas Electronics is included for high-resolution position control.
- A CPU card equipped with the RX24T motor control microcontroller is included, and motor control using a resolver can be realized with RX24T.
- Sample code with resolver driver corresponding to the kit is available.
- Supports motor control development support tool Renesas Motor Workbench, and is ideal for learning and debugging motor control using a kit.



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Motor control configuration

Related Products

Microcontroller: R5F524TEADFP

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Kit Contents

- 48V inverter board
- RX24T CPU card with RDC IC
- Stepping motor with resolver sensor
(MinebeaMitsumi Inc.: R17PMK440CNVA4438)
- Various cables

Resolver-to-Digital Converter:
RAA3064002GFP

Gate Driver: HIP4082IBZ

RS485 Driver: ISL3156EIUZ

MOSFET: RJK1054DPB

Regulator: ISL9001AIRNZ,
ISL9005AIRNZ

Please download the following from the website.

※ Please download this tool from the URL provided on the sheet attached to the kit.

- Motor Control Development Support Tool Renesas Motor Workbench
- Instruction manual, circuit diagram, pattern diagram
- Sample software (Please contact us)
- Application notes

Related Links

Motor Control Solution

Resolver Solution

RX24T

Ordering Information

Product name	Part number	Ordering
Evaluation System for Stepping Motor with Resolver	RTK0EMX270S01020BJ	Available

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