

---

[Upgrade to Revision]

R20TS0919EJ0100

Rev.1.00

Driver for Resolver-to-Digital Converter Control Rev 2.10

Feb. 01, 2023

---

## Outline

The Driver for Resolver-to-Digital Converter Control has been updated from Rev 2.00 to 2.10.

### 1. Products to Be Updated

Driver for Resolver-to-Digital Converter Control Ver 1.00 to 2.00

### 2. Description

The angle error compensation function for the driver for resolver-to-digital converter control has been improved.

The following section covers the main enhancements. For details, see the application note at the link below. (The note is applicable as of February 6.)

- Driver for Resolver-to-Digital Converter Control (Rev 2.10) Application Note (R03AN0016)

<https://www.renesas.com/us/en/application/key-technology/motor-control-robotics/resolver-motor-control-solutions-consumer-and-industrial-applications>

#### 2.1 Improved Functionality

- Performance of the angle error compensation signal adjustment function has been improved. This function is one of the auto tuning processes of the driver for resolver-to-digital converter control.
- Along with the improvement of the angle error compensation function, an API that sets the phase delay components for RDC-IC peripheral circuits (filters) has been added.
- An API that acquires the output status of an angle error compensation signal has been added.

#### 2.2 Supported Devices

RX23T, RX24T, RX66T, RX72T, RX72M

### 3. Using the Product

Import the library and header files from the release package to the project to be registered to your IDE (e<sup>2</sup> studio or CS+). If an older version driver has already been imported to the project, overwrite the existing library and header files with those of the new version. For details, see the application note (R03AN0016).

**Revision History**

Rev.	Date	Description	
		Page	Summary
1.00	Feb.01.23	-	First edition issued

Renesas Electronics has used reasonable care in preparing the information included in this document, but Renesas Electronics does not warrant that such information is error free. Renesas Electronics assumes no liability whatsoever for any damages incurred by you resulting from errors in or omissions from the information included herein.

The past news contents have been based on information at the time of publication. Now changed or invalid information may be included.

The URLs in the Tool News also may be subject to change or become invalid without prior notice.

**Corporate Headquarters**

TOYOSU FORESIA, 3-2-24 Toyosu,  
Koto-ku, Tokyo 135-0061, Japan  
[www.renesas.com](http://www.renesas.com)

**Trademarks**

Renesas and the Renesas logo are trademarks of Renesas Electronics Corporation. All trademarks and registered trademarks are the property of their respective owners.

**Contact Information**

For further information on a product, technology, the most up-to-date version of a document, or your nearest sales office, please visit:  
[www.renesas.com/contact/](http://www.renesas.com/contact/)