

[Notes] Solution Toolkit
QE for Capacitive Touch
Development Assistance Tool for Capacitive Touch Sensors

R20TS0821EJ0100
Rev.1.00
Feb. 16, 2022

Outline

When using of the products in the title, note the following points.

1. Notes on using tuning processing on CTSU2.

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1.1 Applicable Products

Development Assistance Tool for Capacitive Touch Sensors

- QE for Capacitive Touch V3.0.1

1.2 Applicable Devices

RX Family: RX140

RA Family: RA2E1, RA2L1

RL78 Family: RL78/G23

1.3 Details

The measured "Parasitic Capacitance" is halved from the original value, and the "Sensor Drive Pulse Frequency" and "Touch Threshold" calculated from it are incorrect values.

- Sensor Drive Pulse Frequency: Since the set frequency is faster than the recommended value, the electrodes will not be charged and discharged normally, which will affect the measurement of the count value.
- Touch Threshold: The threshold value for touching is halved.

1.4 Conditions

It occurs when the tuning process is used for the corresponding device.

1.5 Workaround

There is no workaround. Please contact us.

- <https://www.renesas.com/contact/>

1.6 Schedule for Fixing the Problem

This problem will be fixed in the next version. (Scheduled to be released in February 2022.)

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Feb.16.22	-	First edition issued

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