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

Outline

When using of the products in the title, note the following points.
1. Notes on using tuning processing on CTSU2.

1. Notes on using tuning processing on CTSU2

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

<table>
<thead>
<tr>
<th>Rev.</th>
<th>Date</th>
<th>Page</th>
<th>Description</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.00</td>
<td>Feb.16.22</td>
<td>-</td>
<td>First edition</td>
<td>issued</td>
</tr>
</tbody>
</table>

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)

**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/)

**Trademarks**

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

© 2022 Renesas Electronics Corporation. All rights reserved.

TS Colophon 4.3