

FemtoClock™ 3 (RC323XX & RC223XX)

Programmable Clocks Live Bench Measurement Tool Step-by-Step Guide





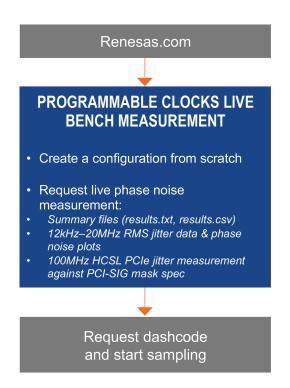
SYSTEM OVERVIEW

SYSTEM PURPOSE

- Instant access to automated jitter measurements for Renesas' flagship clock devices.
- Support PCle Gen6/7 measurement against latest spec.

SYSTEM BENEFIT

- No EVB or lab equipment needed.
- Easy dashcode generation and sampling process.
- Most Renesas timing devices support multiple configurations, and once qualified, can be used across different platforms.

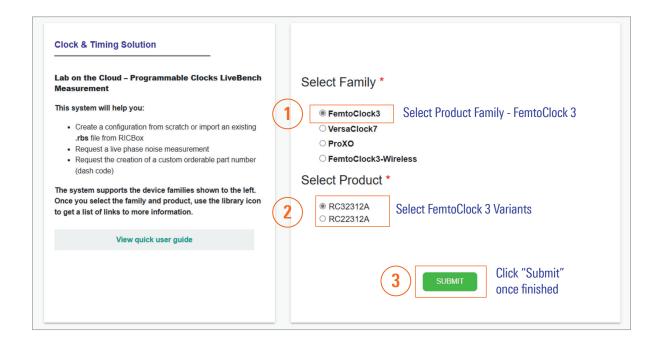


HOW TO FIND THE TOOL

Access Programmable Clocks Live Bench Measurement Tool from Website: Design Resources → Programmable Clocks Live Bench Measurement

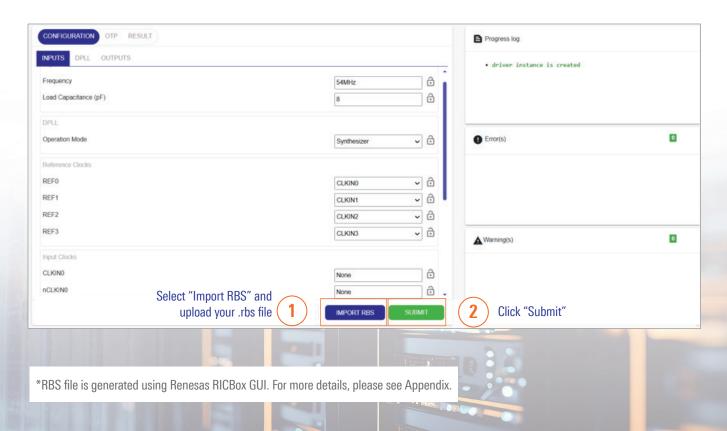


SELECTING THE FAMILY AND VARIANT



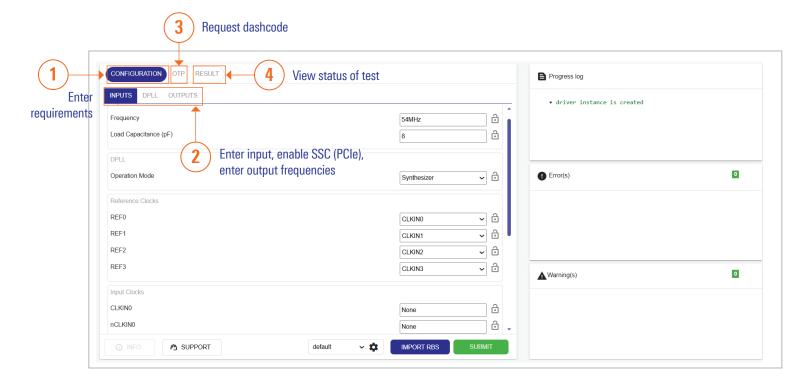
CREATE OR LOAD A CONFIGURATION

Option 1: Importing an existing RBS file*

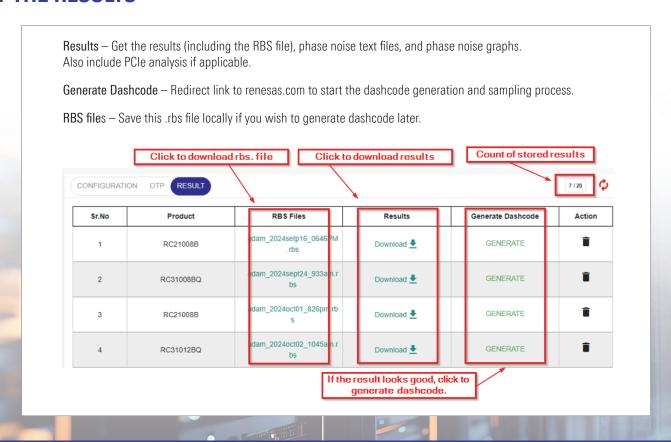


CREATE OR LOAD A CONFIGURATION

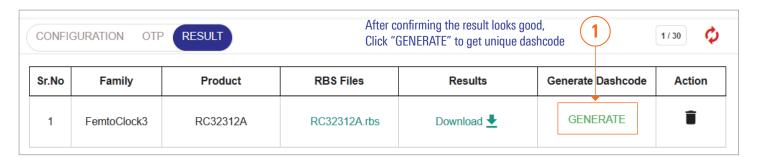
Option 2: No RBS file. Create new configuration from scratch.

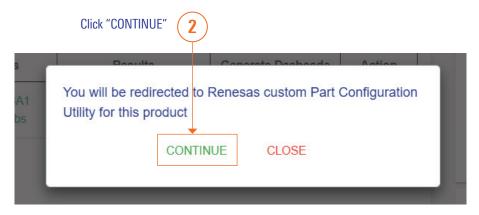


GET THE RESULTS



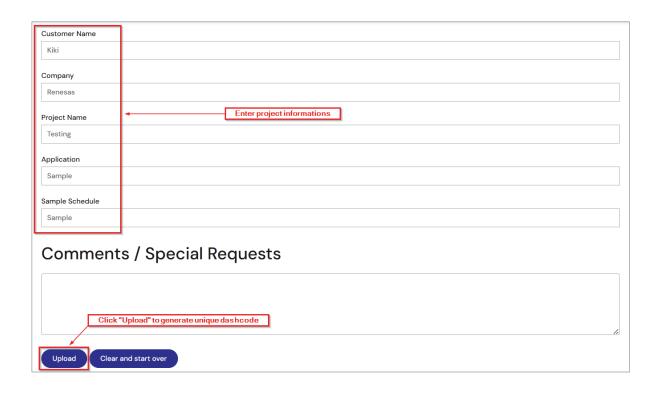
GENERATE DASHCODE

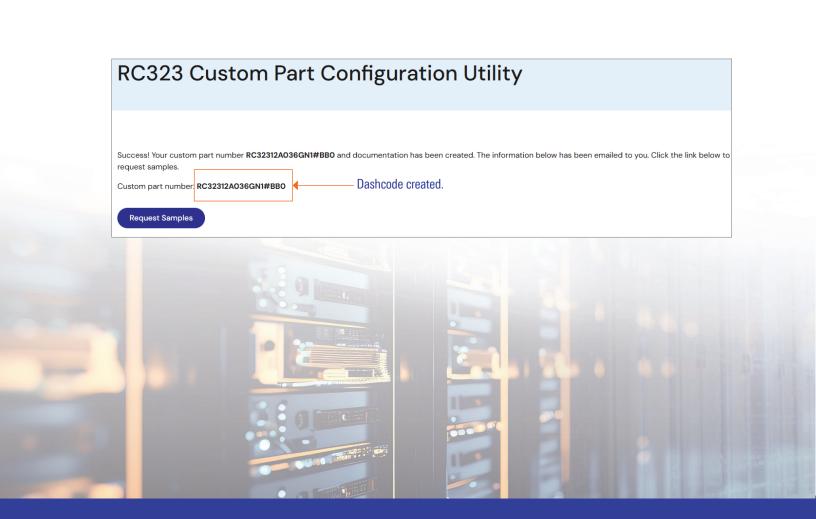






GENERATE DASHCODE





NOTE

Storage Limit

- Max 20 test results per user
- Delete older results when full (check counter on results screen)

RBS File Matching

· Imported RBS must match the selected device

Test Queueing

- · Requests run one at a time
- · Multiple submissions will be queued

Support Scope

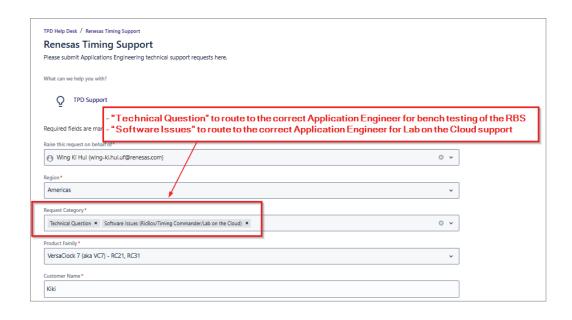
- · System measures provided configurations only
- For optimization, an application engineer is still needed

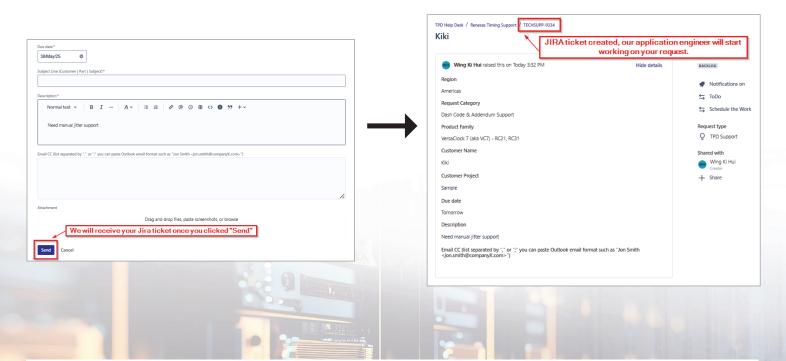
GETTING HELP WITH SYSTEM

For manual jitter requests or system issues, please submit on JIRA at: https://clocking.atlassian.net/servicedesk/customer/portals → Renesas Timing Support → TPD Support → Product Family "FemtoClock 3 (RC323xx, RC223xx)" Welcome to the TPD Help Desk Q Search for information Direct person contact or feedback on particular product or services: TPD PLM/Apps product owners For EVB please proceed to <u>link</u> for sample request or order through distribution. Featured portals **TPD Supply Escalation** Renesas Timing Support We no longer support escalation from this Please submit Applications Engineering **Direct Contact Info** https://renesasgroup.sharepoint.com/sites/IIBU-TPD/SitePages/Contacts.aspx TPD Help Desk / Renesas Timing Support **Renesas Timing Support** Please submit Applications Engineering technical support requests here. What can we help you with? TPD Support

GETTING HELP WITH SYSTEM

Use a "Request Category" of "Software Issues" to route to the correct Application Engineer for Lab on the Cloud support





OTHER USEFUL INFORMATION

FemtoClock 3 Product Pages: RC323 and RC223

RICBox Builder Tool: Renesas IC Toolbox (RICBox)

APPENDIX

WHAT IS RICBox?

Renesas IC Toolbox (RICBox) is a software platform that lets users:

- Configure Renesas devices via evaluation kits connected to a PC
- Build configuration profiles for devices with non-volatile memory
- Ensure correct startup behavior, especially for clock devices needing pre-set configurations
- Especially useful when you want your device to boot up with a specific setup automatically



