

[Upgrade to Version]

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Rev.1.00

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QE for Display[RX,RA]V3.0.0:

Development Assistance Tool for Display Applications

Outline

QE for Display[RX] V2.1.0 has been updated to QE for Display[RX,RA]V3.0.0.

1. Product to Be Updated

QE for Display[RX] V2.1.0

2. Description

QE for Display[RX,RA] V3.0.0 supports both RX and RA family devices.

Addition of supported devices: RA6M3 group

Refer to the Release Note in the link below for the details of the update and how to install the product.

<https://www.renesas.com/us/en/document/rln/qe-displayrxra-v300-release-note>

2.1 Features

The following features are available for RA6M3 group.

- (1) LCD panel adjustment
- (2) GUI development support with emWin

<https://www.renesas.com/products/microcontrollers-microprocessors/ra-cortex-m-mcus/ra-partners/segger-emwin>

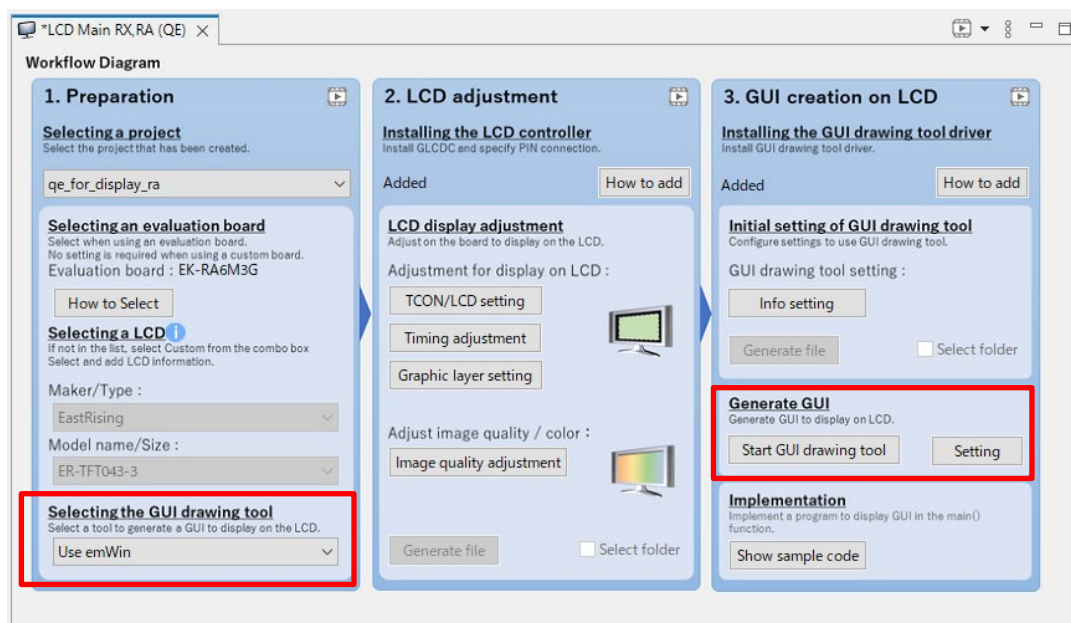
2.1.1 LCD Panel Adjustment

- The timing and image quality of LCD panels can be adjusted with the tool.
- The FSP Visualization shows the results of adjustments on the FSP.

The screenshot shows the QE for Display tool interface. On the left, the 'Stacks Configuration' window displays a tree view of the system components, including HAL/COMMON, g_ioport I/O Port (r_ioport), SEGGER emWin, SEGGER emWin RA Port (rm_emwin_port), g_display0 Graphics LCD (r_glcd), D/AVE 2D Port Interface (r_drw), g_image JPEG Codec (r_peg), and D/AVE 2D (r_drw). Below this, the 'Properties' window shows the settings for 'g_display0 Graphics LCD (r_glcd)', including 'Parameter Checking' (Default (BSP)) and 'Color Correction' (Off). On the right, the 'FSP Visualization' window displays a timing diagram for the LCD panel. The diagram shows the relationship between the PLL Circuit Frequency (MHz), Panel Clock Frequency (MHz), and the LCD panel's timing parameters (VPW, VBP, VDP, VFP, VTP, HPW, HBP, HDP, HFP, HTP). A blue arrow points from the FSP Visualization window to the text 'Results of adjustments are displayed.'

2.1.2 GUI Development Support with emWin

- The tool is linked to the emWin and supports RA6M3 group.
- Developers can easily create GUI by following the workflow.



Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Feb.01.22	-	First edition issued

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Corporate Headquarters

TOYOSU FORESIA, 3-2-24 Toyosu,
Koto-ku, Tokyo 135-0061, Japan
www.renesas.com

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