

[Released on the Web]

R20TS1166EJ0100

Rev.1.00

# Solution Toolkit QE for Segment LCD[RL78] V1.0.0: Development Assistance Tool for Segment LCD

Sep. 05, 2025

## Outline

QE for Segment LCD[RL78] V1.0.0, a development assistance tool for segment LCD, has been released on the web.

This product is available free of charge.

## 1. Product Features

QE for Segment LCD[RL78] V1.0.0 is one of the solution toolkits that operate on the e<sup>2</sup> studio integrated development environment. This development support tool assists throughout the entire development flow for solutions using segment LCD, covering functions such as LCD pin configuration, wiring verification, display pattern creation, and sample program generation. Using this tool makes the development of the segment LCD solution simple, quick, and efficient.

### 1.1 Workflow

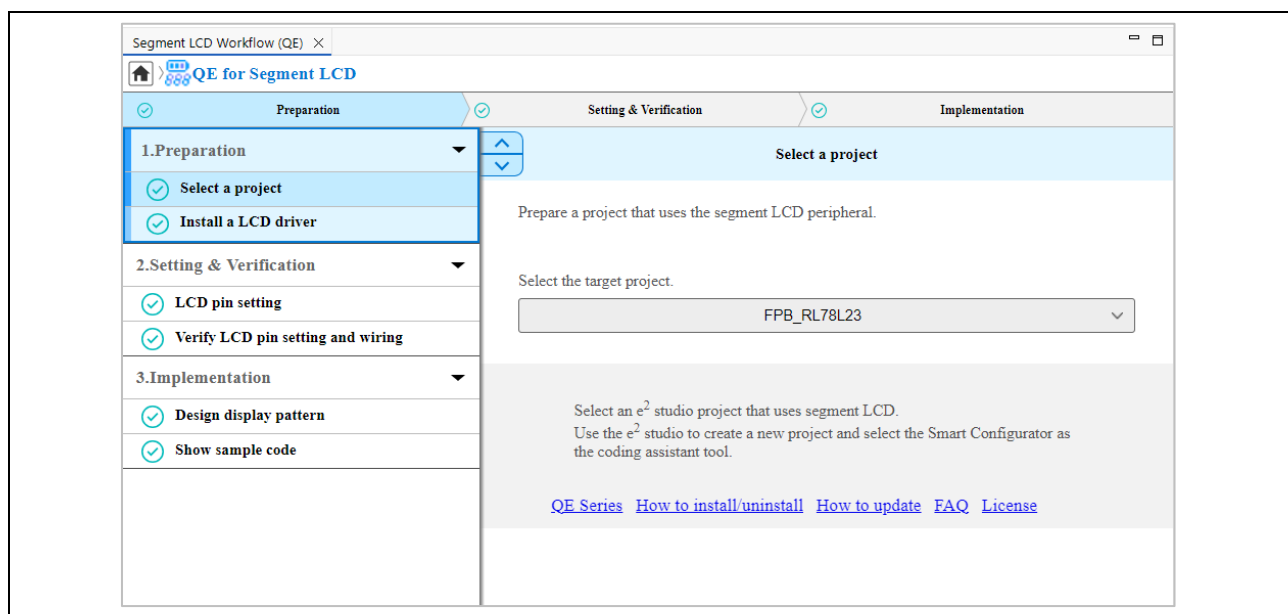


Figure 1 Segment LCD Workflow (QE) View

- Preparation  
Select a project that uses segment LCD and install the LCD driver.
- Setting & Verification  
In the “LCD Setting” dialog (Figure 2), configure the LCD component and set the COM and SEG pins for each segment. In the Segment LCD Wiring Test View (Figure 3), flash each segment individually to verify the wiring between the microcontroller and the segment LCD.
- Implementation  
In the “LCD Pattern Design” dialog (Figure 4), create the display pattern for the segment LCD and output the pattern display API. Implement sample code that displays each assigned display design for the component one by one.

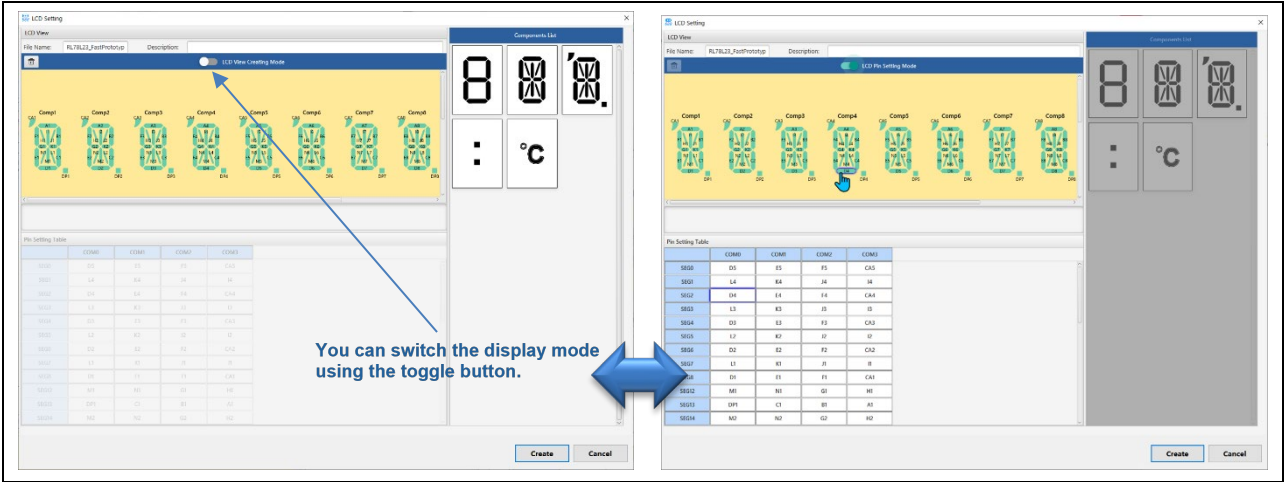


Figure 2 “LCD Setting” dialog (Left: LCD View Creating Mode, Right: LCD Pin Setting Mode)

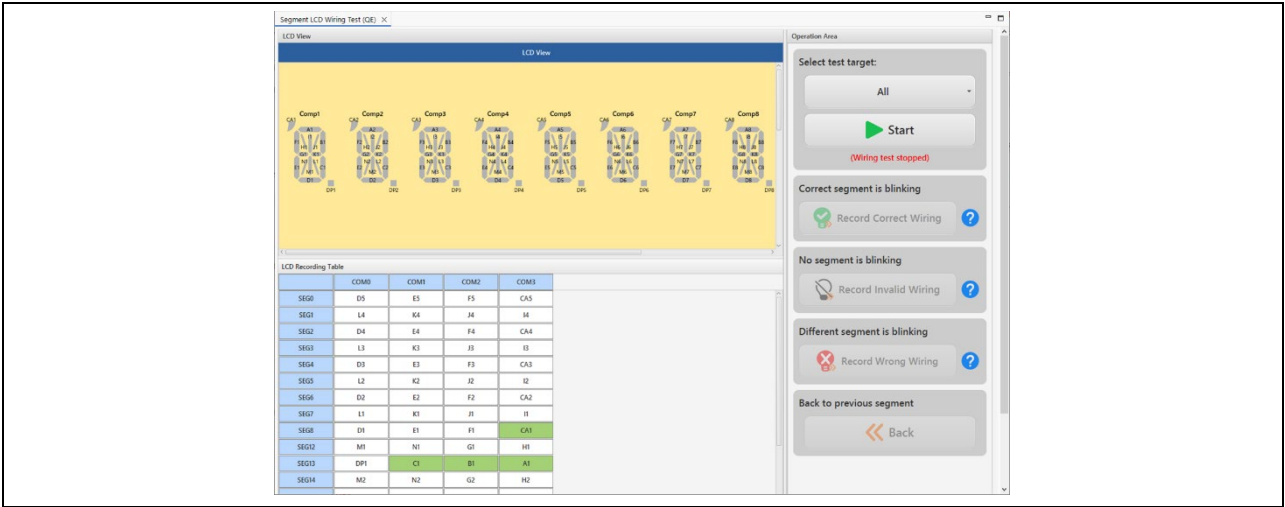


Figure 3 Segment LCD Wiring Test (QE) View

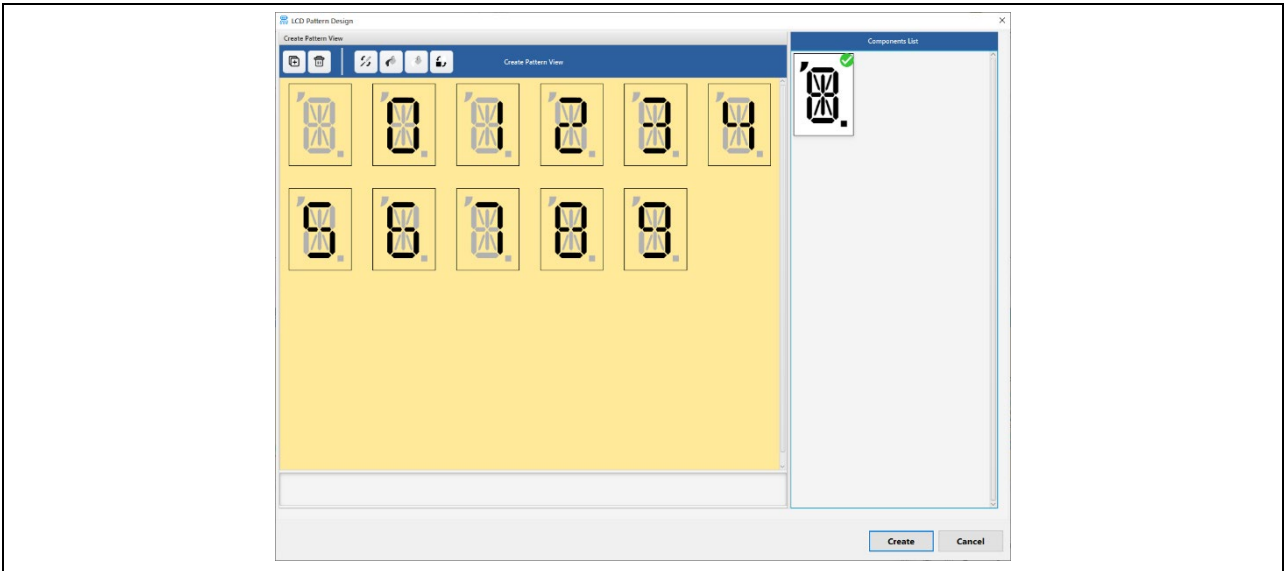


Figure 4 “LCD Pattern Design” dialog

### 2. Supported Devices

RL78 Family: RL78/L23

- Supported Evaluation Board
  - RL78/L23 Fast Prototyping Board
  - Custom board

### 3. Operating Environment

- Windows 10 (64-bit version), Windows 11 (64-bit version)
- Renesas e<sup>2</sup> studio 2025-07 or later

### 4. Obtaining the Product

Download the product from the URL below.

<https://www.renesas.com/qe-segment-lcd>

Please refer to the release notes for this product for installation instructions, notes and limitations.

- QE for Segment LCD[RL78] V1.0.0 Release Note  
<https://www.renesas.com/document/rln/qe-segment-lcdrl78-v100-release-note>

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Sep.05.25	-	First edition issued

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