

[Notes]

R20TS0250EJ0100

Rev.1.00

Jan. 16, 2018

EEPROM Emulation Library Pack01 for RL78 Family,

EEPROM Emulation Library T01 for RL78 Family

Outline

When using the EEPROM Emulation Library Pack 01 for RL78 Family and the EEPROM Emulation Library T01 for RL78 Family, note the following point.

1. When a reset or power outage occurred during data writing

1. When a Reset or Power Outage Occurred During Data Writing

1.1 Applicable Products

- EEPROM Emulation Library Pack 01 for RL78 Family (RL78 EEL Pack01) Package, Japan Release all versions earlier than V2.10
- EEPROM Emulation Library T01 for RL78 Family (RL78 EEL T01) Package, European Release all versions earlier than V2.10^(Note)

Note: For the installer that contains only EEL without FDL, all versions earlier than V1.15 are applicable.

1.2 Applicable MCUs

RL78 family: RL78/D1A, RL78/F12, RL78/F13, RL78/F14, RL78/F15, RL78/F1A, RL78/G13, RL78/G14, RL78/G1A, RL78/G1D, RL78/G1E, RL78/G1F, and RL78/G1H groups
RL78/I1A, RL78/I1E, RL78/L13, RL78/L1A, and RL78/L1C groups

Other RL78 family products for which RL78 EEL Pack01 or RL78 EEL T01 is available

1.3 Details

The following phenomena may occur:

- (a) When existing data is 0xFF, user data or the reference table (DRP) managed by EEL is destroyed.
- (b) When the last valid block does not have enough write area, write processing does not end.
- (c) The management table of the EEL data is destroyed.

1.4 Conditions

This problem may arise if all of the following specific conditions are met.

- (1) A reset or power outage occurs while RL78 EEL Pack 01 or RL78 EEL T01 is writing the DRP in the processing of data writing.
- (2) Although the DRP is incompletely written, the checksum (RCS) happens to match.
- (3) After the STARTUP processing is executed, the write processing (EEL_WRITE command or maintenance processing) is executed.

1.5 Rate of Occurrence (Reference)

The probability of occurrence under the following conditions of use is about 0.362 ppm.
(An error may occur in 0.362 of 1 million units.)

➤ Example of use conditions

- Data writing is performed 100 times a day.
- A total of 400 reset and power outage events occur in a year.
- The device has been in operation for 20 years.

1.6 Workaround

There is no workaround for this problem.

1.7 Solution

This problem will be fixed in the next version.
The next version will be available from January 22, 2018.

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Jan. 16, 2018	-	First edition issued

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