

Self RAM list of Flash Self-Programming Library for RL78 Family

This document is a list of Self RAM area which are needed when using the following library (European Release/Japanese Release) of RL78 Family. Target region of "European Release" and "Japanese Release" differs.

●European Release  
Target region:  
Americas/ Brazil/ Europe/ Middle East/ Africa

| Library <sup>Note</sup>                   | Representation in List |
|---|------------------------|
| Flash Self-programming Library Type T01   | FSL T01                |
| Data Flash Access Library Type T04 (Pico) | FDL T04                |
| Data Flash Access Library FDL - T01       | FDL T01                |
| Data Flash Access Library Type T02 (Tiny) | FDL T02                |
| EEPROM Emulation Library EEL - T01        | EEL T01                |
| EEPROM Emulation Library Type T02 (Tiny)  | EEL T02                |

●Japanese Release  
Target region:  
Japan/ Mainland China/ Hong Kong/ Singapore/ South & Southeast Asia/ Oceania/ India/ South Korea/ Taiwan

| Library <sup>Note</sup>                                    | Representation in List |
|--|------------------------|
| Flash Self-programming Library (Code Flash Library) Type01 | FSL Type01             |
| Data Flash Library Type04                                  | FDL Type04             |
| EEPROM Emulation Library Pack01                            | EEL Pack01             |
| EEPROM Emulation Library Pack02                            | EEL Pack02             |

Note: Do not allocate the stack area, data buffers for use by the flash library, arguments of library functions, branch destinations in the processing of vectored interrupts, or destinations or sources for DMA transfer to the area from FFE20H to FFEFDH when performing Self-programming or rewriting of the data flash memory.

→ Since MCU has a dedicated area for Self RAM, reservation of Self RAM area is unnecessary.

| MCU Group                 | Memory size (bytes) |      |                   | Self RAM areas <sup>note1</sup>                   |  |                                      |                                      |  |   |  | Target MCU name                                      |   |                    |
|---------------------------|---------------------|------|-------------------|---|--|--------------------------------------|--------------------------------------|--|---|--|--|---|--------------------|
|                           | Code flash memory   | RAM  | Data flash memory | FSL T01<br>FSL Type01<br>Self RAM size<br>1Kbytes | FDL T04<br>FDL Type04<br>Self RAM size<br>136bytes | FDL T01<br>Self RAM size<br>192bytes | FDL T02<br>Self RAM size<br>160bytes | EEL T01<br>EEL Pack01<br>Self RAM size<br>102bytes (max)<br><sup>note2</sup> | EEL Pack02<br>Self RAM size<br>384bytes (max)<br><sup>note3</sup> | EEL T02<br>Self RAM size<br>384bytes (max)<br><sup>note3</sup> |  |   |                    |
| RL78/D1A                  | 24K                 | 2K   | 8K                | -   | -  | -                                    | -                                    | -  | -   | -  | R5F10CGB   |   |                    |
|                           | 32K                 | 2K   | 8K                | -   | -  | -                                    | -                                    | -  | -   | -  | R5F10CGC, R5F10DGC                                   |   |                    |
|                           | 48K                 | 3K   | 8K                | -   | <sup>note4</sup>                                   | -                                    | -                                    | -  | -   | -  | R5F10CxD (x = G, L, M), R5F10DxD (x = G, L, M)       |   |                    |
|                           | 64K                 | 4K   | 8K                | FEF00H- FF2FFH                                    | <sup>note5</sup>                                   | FEF00H- FEF87H                       | FEF00H- FEFBFH                       | FEF00H- FEF9FH   | FEF00H- FF2FDH  | FEF00H- FF07FH   | FEF00H- FF07FH                                       | R5F10CME, R5F10DxE (x = G, L, M)                        |                    |
|                           | 64K                 | 4K   | 8K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F10DPE  |                    |
|                           | 96K                 | 6K   | 8K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F10DMF, R5F10DPF                                      |                    |
|                           | 128K                | 8K   | 8K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F10DMG, R5F10DPG                                      |                    |
|                           | 256K                | 16K  | 8K                | FBF00H- FC2FFH                                    | <sup>note5</sup>                                   | FBF00H- FBF87H                       | FBF00H- FBFBFH                       | FBF00H- FBF9FH   | FBF00H- FC2FDH  | FBF00H- FC07FH   | FBF00H- FC07FH                                       | R5F10DMJ, R5F10TPJ, R5F10DPJ                            |                    |
|                           | 256K                | 16K  | 8K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F10DSJ  |                    |
|                           | 384K                | 20K  | 8K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F10DPK, R5F10DSK                                      |                    |
| RL78/F12                  | 512K                | 24K  | 8K                | F9F00H- FA2FFH                                    | <sup>note5</sup>                                   | F9F00H- F9F87H                       | F9F00H- F9FBFH                       | F9F00H- F9F9FH   | F9F00H- FA2FDH  | F9F00H- FA07FH   | F9F00H- FA07FH                                       | R5F10DPL, R5F10DSL                                      |                    |
|                           | 8K                  | 512  | 4K                | -   | -  | -                                    | -                                    | Not supported  | -   | -  | -  | R5F10968  |                    |
|                           | 16K                 | 1K   | 4K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F109xA (x = 6, A, B, G, L)                            |                    |
|                           | 24K                 | 1.5K | 4K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F109xB (x = 6, A, B, G, L)                            |                    |
|                           | 32K                 | 2K   | 4K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F109xC (x = 6, A, B, G, L)                            |                    |
|                           | 48K                 | 3K   | 4K                | -   | <sup>note4</sup>                                   | -                                    | -                                    | -  | -   | -  | -  | R5F109xD (x = 6, A, B, G, L)                            |                    |
| RL78/F13                  | 64K                 | 4K   | 4K                | FEF00H- FF2FFH                                    | <sup>note5</sup>                                   | FEF00H- FEF87H                       | FEF00H- FEFBFH                       | FEF00H- FEF9FH   | FEF00H- FF2FDH  | FEF00H- FF07FH   | FEF00H- FF07FH                                       | R5F109xE (x = 6, A, B, G, L)                            |                    |
|                           | 16K                 | 1K   | 4K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F10AmA (m = 6, A, B, G)                               |                    |
|                           | 32K                 | 2K   | 4K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F10AmC (m = 6, A, B, G, L), R5F10BnC (n = A, B, G, L) |                    |
|                           | 48K                 | 3K   | 4K                | -   | <sup>note4</sup>                                   | -                                    | -                                    | -  | -   | -  | -  | R5F10AmD (m = 6, A, B, G, L), R5F10BnD (n = A, B, G, L) |                    |
|                           | 64K                 | 4K   | 4K                | FEF00H- FF2FFH                                    | <sup>note5</sup>                                   | FEF00H- FEF87H                       | FEF00H- FEFBFH                       | FEF00H- FEF9FH   | FEF00H- FF2FDH  | FEF00H- FF07FH   | FEF00H- FF07FH                                       | R5F10AmE (m = 6, A, B, G, L)                            |                    |
|                           | 64K                 | 4K   | 4K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F10AME, R5F10BmE (m = A, B, G, L, M)                  |                    |
|                           | 96K                 | 6K   | 4K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F10AmF (m = G, L, M), R5F10BnF (n = A, B, G, L, M)    |                    |
| 128K                      | 8K                  | 4K   | FDF00H- FE2FFH    | <sup>note5</sup>                                  | FDF00H- FDF87H                                     | FDF00H- FDFBFH                       | FDF00H- FDF9FH                       | FDF00H- FE2FDH   | FDF00H- FE07FH  | FDF00H- FE07FH   | R5F10AmG (m = G, L, M), R5F10BnG (n = A, B, G, L, M) |   |                    |
| RL78/F14                  | 48K                 | 4K   | 4K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F10PmD (m = A, B, G)                                  |                    |
|                           | 64K                 | 6K   | 4K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F10PmE (m = A, B, G, L, M, P)                         |                    |
|                           | 96K                 | 8K   | 4K                | FDF00H- FE2FFH                                    | <sup>note5</sup>                                   | FDF00H- FDF87H                       | FDF00H- FDFBFH                       | FDF00H- FDF9FH   | FDF00H- FE2FDH  | FDF00H- FE07FH   | FDF00H- FE07FH                                       | R5F10PmF (m = G, L, M)                                  |                    |
|                           | 96K                 | 8K   | 4K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F10PPF  |                    |
|                           | 128K                | 10K  | 8K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F10PmG (m = G, L, M, P)                               |                    |
|                           | 192K                | 16K  | 8K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F10PmH (m = G, L, M, P)                               |                    |
|                           | 256K                | 20K  | 8K                | FAF00H- FB2FFH                                    | <sup>note5</sup>                                   | FAF00H- FAF87H                       | FAF00H- FAFBFH                       | FAF00H- FAF9FH   | FAF00H- FB2FDH  | FAF00H- FB07FH   | FAF00H- FB07FH                                       | R5F10PmJ (m = G, L, M, P)                               |                    |
| RL78/F15                  | 128K                | 10K  | 8K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F113mG (m = P, T)                                     |                    |
|                           | 192K                | 16K  | 8K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F113mH (m = P, T)                                     |                    |
|                           | 256K                | 20K  | 8K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F113mJ (m = P, T)                                     |                    |
|                           | 384K                | 26K  | 16K               | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F113mK (m = G, L, M, P, T)                            |                    |
|                           | 512K                | 32K  | 16K               | F7F00H- F82FFH                                    | <sup>note5</sup>                                   | F7F00H- F7F87H                       | F7F00H- F7FBFH                       | F7F00H- F7F9FH   | F7F00H- F82FDH  | F7F00H- F807FH   | F7F00H- F807FH                                       | R5F113mL (m = G, L, M, P, T)                            |                    |
| RL78/G10                  | 1K                  | 128  | None              | Not supported                                     |  |                                      |                                      |  |   |  | R5F10Yx4 (x = 1, 4)                                  |   |                    |
|                           | 2K                  | 256  | None              | Not supported                                     |  |                                      |                                      |  |   |  | R5F10Yx6 (x = 1, 4)                                  |   |                    |
|                           | 4K                  | 512  | None              | Not supported                                     |  |                                      |                                      |  |   |  | R5F10Yx7 (x = 1, 4)                                  |   |                    |
| RL78/G11 <sup>note7</sup> | 16K                 | 1.5K | 2K                | FF900H- FFCFFH                                    | <sup>note5</sup>                                   | FF900H- FF987H                       | FF900H- FF9BFH                       | FF900H- FF99FH   | Not supported   |  | FF900H- FFA7FH                                       | R5F105xA (x = 1, 4, 6-8)                                |                    |
| RL78/G12 <sup>note6</sup> | 2K                  | 256  | 2K                | Not supported                                     |  |                                      | Not supported                        |  |   | Not supported  |  | R5F10266  |                    |
|                           | 4K                  | 512  | 2K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F10267, R5F10277, R5F102A7                            |                    |
|                           | 8K                  | 768  | 2K                | FFC00H- FFC7FH                                    | <sup>note5</sup>                                   | -                                    | -                                    | -  | -   | -  | -  | R5F10268, R5F10278                                      |                    |
|                           | 12K                 | 1K   | 2K                | FFB00H- FFC7FH                                    | <sup>note5</sup>                                   | -                                    | -                                    | -  | -   | -  | -  | R5F10269, R5F10279                                      |                    |
|                           | 16K                 | 1.5K | 2K                | FF900H- FFC7FH                                    | <sup>note5</sup>                                   | FF900H- FF987H                       | FF900H- FF9BFH                       | FF900H- FF99FH   | Not supported   | Not supported  | FF900H- FFA7FH                                       | R5F1026A, R5F1027A                                      |                    |
|                           | 8K                  | 768  | 2K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F102A8  |                    |
|                           | 12K                 | 1K   | 2K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F102A9  |                    |
|                           | 16K                 | 2K   | 2K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F102AA  |                    |
|                           | 2K                  | 256  | None              | Not supported                                     |  |                                      | Not supported                        |  |   | Not supported  |  | R5F10366  |                    |
|                           | 4K                  | 512  | None              | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F10367, R5F10377, R5F103A7                            |                    |
|                           | 8K                  | 768  | None              | FFC00H- FFC7FH                                    | <sup>note5</sup>                                   | Not supported                        |                                      |  | Not supported   |  | Not supported  |   | R5F10368, R5F10378 |
|                           | 12K                 | 1K   | None              | FFB00H- FFC7FH                                    | <sup>note5</sup>                                   | Not supported                        |                                      |  | Not supported   |  | Not supported  |   | R5F10369, R5F10379 |
|                           | 16K                 | 1.5K | None              | FF900H- FFC7FH                                    | <sup>note5</sup>                                   | Not supported                        |                                      |  | Not supported   |  | Not supported  |   | R5F1036A, R5F1037A |
|                           | 8K                  | 768  | None              | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F103A8  |                    |
| 12K                       | 1K                  | None | -                 | -   | -  | -                                    | -                                    | -  | -   | -  | R5F103A9   |   |                    |
| 16K                       | 2K                  | None | -                 | -   | -  | -                                    | -                                    | -  | -   | -  | R5F103AA   |   |                    |
| RL78/G13                  | 16K                 | 2K   | 4K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F100xA (x = 6-8, A-C, E-G)                            |                    |
|                           | 32K                 | 2K   | 4K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F100xC (x = 6-8, A-C, E-G, J, L)                      |                    |
|                           | 48K                 | 3K   | 4K                | -   | <sup>note4</sup>                                   | -                                    | -                                    | -  | -   | -  | -  | R5F100xD (x = 6-8, A-C, E-G, J, L)                      |                    |
|                           | 64K                 | 4K   | 4K                | FEF00H- FF2FFH                                    | <sup>note5</sup>                                   | FEF00H- FEF87H                       | FEF00H- FEFBFH                       | FEF00H- FEF9FH   | FEF00H- FF2FDH  | FEF00H- FF07FH   | FEF00H- FF07FH                                       | R5F100xE (x = 6-8, A-C, E-G, J, L)                      |                    |
|                           | 96K                 | 8K   | 8K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F100xF (x = A-C, E-G, J, L, M, P)                     |                    |
|                           | 128K                | 12K  | 8K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F100xG (x = A-C, E-G, J, L, M, P)                     |                    |
|                           | 192K                | 16K  | 8K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F100xH (x = E-G, J, L, M, P, S)                       |                    |
|                           | 256K                | 20K  | 8K                | FAF00H- FB2FFH                                    | <sup>note5</sup>                                   | FAF00H- FAF87H                       | FAF00H- FAFBFH                       | FAF00H- FAF9FH   | FAF00H- FB2FDH  | FAF00H- FB07FH   | FAF00H- FB07FH                                       | R5F100xJ (x = F, G, J, L, M, P)                         |                    |
|                           | 256K                | 20K  | 8K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F100SJ  |                    |
|                           | 384K                | 24K  | 8K                | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F100xK (x = F, G, J, L, M, P, S)                      |                    |
|                           | 512K                | 32K  | 8K                | F7F00H- F82FFH                                    | <sup>note5</sup>                                   | F7F00H- F7F87H                       | F7F00H- F7FBFH                       | F7F00H- F7F9FH   | F7F00H- F82FDH  | F7F00H- F807FH   | F7F00H- F807FH                                       | R5F100xL (x = F, G, J, L, M, P, S)                      |                    |
|                           | 16K                 | 2K   | None              | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F101xA (x = 6-8, A-C, E-G)                            |                    |
|                           | 32K                 | 2K   | None              | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F101xC (x = 6-8, A-C, E-G, J, L)                      |                    |
|                           | 48K                 | 3K   | None              | -   | <sup>note4</sup>                                   | -                                    | -                                    | -  | -   | -  | -  | R5F101xD (x = 6-8, A-C, E-G, J, L)                      |                    |
|                           | 64K                 | 4K   | None              | FEF00H- FF2FFH                                    | <sup>note5</sup>                                   | -                                    | -                                    | -  | -   | -  | -  | R5F101xE (x = 6-8, A-C, E-G, J, L)                      |                    |
|                           | 96K                 | 8K   | None              | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F101xF (x = A-C, E-G, J, L, M, P)                     |                    |
|                           | 128K                | 12K  | None              | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F101xG (x = A-C, E-G, J, L, M, P)                     |                    |
|                           | 192K                | 16K  | None              | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F101xH (x = E-G, J, L, M, P, S)                       |                    |
|                           | 256K                | 20K  | None              | FAF00H- FB2FFH                                    | <sup>note5</sup>                                   | -                                    | -                                    | -  | -   | -  | -  | R5F101xJ (x = F, G, J, L, M, P)                         |                    |
|                           | 256K                | 20K  | None              | -   | -  | -                                    | -                                    | -  | -   | -  | -  | R5F101SJ  |                    |
| 384K                      | 24K                 | None | -                 | -   | -  | -                                    | -                                    | -  | -   | -  | R5F101xK (x = F, G, J, L, M, P, S)                   |   |                    |
| 512K                      | 32K                 | None | F7F00H- F82FFH    | <sup>note5</sup>                                  | -  | -                                    | -                                    | -  | -   | -  | R5F101xL (x = F, G, J, L, M, P, S)                   |   |                    |

| MCU Group             | Memory size (bytes) |      |                   | Self RAM areas <b>note1</b> |                        |                        |                        |  |   |   | Target MCU name                                |
|-----------------------|---------------------|------|-------------------|-----------------------------|------------------------|------------------------|------------------------|--|---|---|--|
|                       | Code flash memory   | RAM  | Data flash memory | FSL T01                     | FDL T04                | FDL T01                | FDL T02                | EEL T01                                    | EEL Pack02                                | EEL T02                                   |  |
|                       |                     |      |                   | FSL Type01                  | FDL Type04             | FDL T01                | FDL T02                | EEL Pack01                                 | EEL Pack02                                | EEL T02                                   |  |
|                       |                     |      |                   | Self RAM size 1Kbytes       | Self RAM size 136bytes | Self RAM size 192bytes | Self RAM size 160bytes | Self RAM size 1022bytes (max) <b>note2</b> | Self RAM size 384bytes (max) <b>note3</b> | Self RAM size 384bytes (max) <b>note3</b> |  |
| RL78/G13A             | 384K                | 24K  | 8K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F140xK (x = F, G, L, P)                      |
|                       | 512K                | 32K  | 8K                | F7F00H- F82FFH <b>note5</b> | F7F00H- F7F87H         | F7F00H- F7FBFH         | F7F00H- F7F9FH         | F7F00H- F82FDH                             | F7F00H- F807FH                            | F7F00H- F807FH                            | R5F140xL (x = F, G, L, P)                      |
| RL78/G14              | 16K                 | 2.5K | 4K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F104xA (x = A-C, E-G)                        |
|                       | 32K                 | 4K   | 4K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F104xC (x = A-C, E-G, J, L)                  |
|                       | 48K                 | 5.5K | 4K                | FE900H- FECFFH <b>note5</b> | FE900H- FE987H         | FE900H- FE9BFH         | FE900H- FE99FH         | FE900H- FECFDH                             | FE900H- FEA7FH                            | FE900H- FEA7FH                            | R5F104xD (x = A-C, E-G, J, L)                  |
|                       | 64K                 | 5.5K | 4K                | FE900H- FECFFH <b>note5</b> | FE900H- FE987H         | FE900H- FE9BFH         | FE900H- FE99FH         | FE900H- FECFDH                             | FE900H- FEA7FH                            | FE900H- FEA7FH                            | R5F104xE (x = A-C, E-G, J, L)                  |
|                       | 96K                 | 12K  | 8K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F104xF (x = A-C, E-G, J, L, M, P)            |
|                       | 128K                | 16K  | 8K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F104xG (x = A-C, E-G, J, L, M, P)            |
|                       | 192K                | 20K  | 8K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F104xH (x = E-G, J, L, M, P)                 |
|                       | 256K                | 24K  | 8K                | F9F00H- FA2FFH <b>note5</b> | F9F00H- F9F87H         | F9F00H- F9FBFH         | F9F00H- F9F9FH         | F9F00H- FA2FDH                             | F9F00H- FA07FH                            | F9F00H- FA07FH                            | R5F104xJ (x = F, G, J, L, M, P)                |
|                       | 384K                | 32K  | 8K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F104xK (x = G, L, M, P)                      |
|                       | 512K                | 48K  | 8K                | F3F00H- F42FFH <b>note5</b> | F3F00H- F3F87H         | F3F00H- F3FBFH         | F3F00H- F3F9FH         | F3F00H- F42FDH                             | F3F00H- F407FH                            | F3F00H- F407FH                            | R5F104xL (x = G, L, M, P)                      |
| RL78/G1A              | 16K                 | 2K   | 4K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F10ExA (x = 8, B, G)                         |
|                       | 32K                 | 2K   | 4K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F10ExC (x = 8, B, G, L)                      |
|                       | 48K                 | 3K   | 4K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F10ExD (x = 8, B, G, L)                      |
|                       | 64K                 | 4K   | 4K                | FEF00H- FF2FFH <b>note5</b> | FEF00H- FEF87H         | FEF00H- FEFBFH         | FEF00H- FEF9FH         | FEF00H- FF2FDH                             | FEF00H- FF07FH                            | FEF00H- FF07FH                            | R5F10ExE (x = 8, B, G, L)                      |
| RL78/G1C              | 32K                 | 5.5K | 2K                | FE900H- FECFFH <b>note5</b> | FE900H- FE987H         | FE900H- FE9BFH         | FE900H- FE99FH         | Not supported                              | FE900H- FEA7FH                            | R5F10JxC (x = B, G), R5F10KxC (x = B, G)  |  |
| RL78/G1D              | 128K                | 12K  | 8K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F11AGG                                       |
|                       | 192K                | 16K  | 8K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F11AGH                                       |
| RL78/G1E              | 256K                | 20K  | 8K                | FAF00H- FB2FFH <b>note5</b> | FAF00H- FAF87H         | FAF00H- FAFBFH         | FAF00H- FAF9FH         | FAF00H- FB2FDH                             | FAF00H- FB07FH                            | FAF00H- FB07FH                            | R5F11AGJ                                       |
|                       | 32K                 | 2K   | 4K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F10FxC (x = L, M)                            |
| RL78/G1F              | 48K                 | 3K   | 4K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F10FxD (x = L, M)                            |
|                       | 64K                 | 4K   | 4K                | FEF00H- FF2FFH <b>note5</b> | FEF00H- FEF87H         | FEF00H- FEFBFH         | FEF00H- FEF9FH         | FEF00H- FF2FDH                             | FEF00H- FF07FH                            | FEF00H- FF07FH                            | R5F10FxE (x = L, M)                            |
| RL78/G1G              | 32K                 | 5.5K | 4K                | FE900H- FECFFH <b>note5</b> | FE900H- FE987H         | FE900H- FE9BFH         | FE900H- FE99FH         | FE900H- FECFDH                             | FE900H- FEA7FH                            | FE900H- FEA7FH                            | R5F11BxC (x = 7, B, C, G, L)                   |
|                       | 64K                 | 5.5K | 4K                | FE900H- FECFFH <b>note5</b> | FE900H- FE987H         | FE900H- FE9BFH         | FE900H- FE99FH         | FE900H- FECFDH                             | FE900H- FEA7FH                            | FE900H- FEA7FH                            | R5F11BxE (x = 7, B, C, G, L)                   |
| RL78/G1H              | 8K                  | 1.5K | None              | FF900H- FFC7FH <b>note5</b> | Not supported          |                        |                        |  |   |   | R5F11ExB (x = A, B, F)                         |
|                       | 16K                 | 1.5K | None              | FF900H- FFC7FH <b>note5</b> | Not supported          |                        |                        |  |   |   | R5F11ExA (x = A, B, F)                         |
| RL78/G1I              | 256K                | 24K  | 8K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F11FLJ                                       |
|                       | 384K                | 32K  | 8K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F11FLK                                       |
|                       | 512K                | 48K  | 8K                | F3F00H- F42FFH <b>note5</b> | F3F00H- F3F87H         | F3F00H- F3FBFH         | F3F00H- F3F9FH         | F3F00H- F42FDH                             | F3F00H- F407FH                            | F3F00H- F407FH                            | R5F11FLM                                       |
| RL78/G1M              | 4K                  | 512  | None              | Not supported               |                        |                        |                        |  |   |   | R5F11W67                                       |
|                       | 8K                  | 1K   | None              | Not supported               |                        |                        |                        |  |   |   | R5F11W68                                       |
| RL78/G1N              | 4K                  | 512  | None              | Not supported               |                        |                        |                        |  |   |   | R5F11Y67                                       |
|                       | 8K                  | 1K   | None              | Not supported               |                        |                        |                        |  |   |   | R5F11Y68                                       |
| RL78/G1P <b>note6</b> | 16K                 | 1.5K | 2K                | FF900H- FFC7FH <b>note5</b> | FF900H- FF987H         | FF900H- FF9BFH         | FF900H- FF99FH         | Not supported                              | FF900H- FFA7FH                            | R5F11ZxA (x = 7, B)                       |  |
| RL78/H1D              | 64K                 | 5.5K | 4K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F11NME                                       |
|                       | 96K                 | 5.5K | 4K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F11xF (x = NG,NL,NM,PL)                      |
|                       | 128K                | 5.5K | 4K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F11xG (x = NG,NL,NM,PL)                      |
|                       | 128K                | 8K   | 4K                | DFD00H- FE2FFH <b>note5</b> | DFD00H- DDF87H         | DFD00H- DDFBFH         | DFD00H- DDF9FH         | DFD00H- FE2FDH                             | DFD00H- FE07FH                            | DFD00H- FE07FH                            | R5F11RMG                                       |
| RL78/I1A              | 32K                 | 2K   | 4K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F1076C, R5F107AC                             |
|                       | 64K                 | 4K   | 4K                | FEF00H- FF2FFH <b>note5</b> | FEF00H- FEF87H         | FEF00H- FEFBFH         | FEF00H- FEF9FH         | FEF00H- FF2FDH                             | FEF00H- FF07FH                            | FEF00H- FF07FH                            | R5F107AE, R5F107DE                             |
| RL78/I1B              | 64K                 | 6K   | None              | -                           | Not supported          |                        |                        |  |   |   | R5F10MME, R5F10MPE                             |
|                       | 128K                | 8K   | None              | DFD00H- FE2FFH <b>note5</b> | Not supported          |                        |                        |  |   |   | R5F10MMG, R5F10MPG                             |
| RL78/I1C              | 64K                 | 6K   | 2K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F10NxE (x = L, M), R5F11TLE                  |
|                       | 128K                | 8K   | 2K                | DFD00H- FE2FFH <b>note5</b> | DFD00H- DDF87H         | DFD00H- DDFBFH         | DFD00H- DDF9FH         | Not supported                              |   | DFD00H- FE07FH                            | R5F10NxB (x = L, M), R5F11TLG                  |
|                       | 128K                | 8K   | 2K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F10NPG                                       |
|                       | 256K                | 16K  | 2K                | FBF00H- FC2FFH <b>note5</b> | FBF00H- FBF87H         | FBF00H- FBFBFH         | FBF00H- FBF9FH         | -  | FBF00H- FC07FH                            | FBF00H- FC07FH                            | R5F10NxJ (x = M, P)                            |
|                       | 512K                | 32K  | 2K                | F7F00H- F82FFH <b>note5</b> | F7F00H- F7F87H         | F7F00H- F7FBFH         | F7F00H- F7F9FH         | -  | F7F00H- F807FH                            | F7F00H- F807FH                            | R5F10NxL (x = M, P)                            |
| RL78/I1D              | 8K                  | 768  | 2K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F117x8 (x = 6, 7, A)                         |
|                       | 16K                 | 2K   | 2K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F117xA (x = 6, 7, A, B, G)                   |
|                       | 32K                 | 3K   | 2K                | FF300H- FF6FFH <b>note5</b> | FF300H- FF387H         | FF300H- FE3BFH         | FF300H- FF39FH         | -  | FF300H- FF47FH                            | FF300H- FF47FH                            | R5F117xC (x = A, B, G)                         |
| RL78/I1E              | 32K                 | 8K   | 4K                | DFD00H- FE2FFH <b>note5</b> | DFD00H- DDF87H         | DFD00H- DDFBFH         | DFD00H- DDF9FH         | DFD00H- FE2FDH                             | DFD00H- FE07FH                            | DFD00H- FE07FH                            | R5F11CxC (x = B, C)                            |
| RL78/L12 <b>note6</b> | 8K                  | 1K   | 2K                | FFB00H- FFC7FH <b>note5</b> | -                      | -                      | -                      | -  | -   | -   | R5F10Rx8 (x = B, F, G, J)                      |
|                       | 16K                 | 1K   | 2K                | FFB00H- FFC7FH <b>note5</b> | -                      | -                      | -                      | -  | -   | -   | R5F10RxA (x = B, F, G, J, L)                   |
|                       | 32K                 | 1.5K | 2K                | FF900H- FFC7FH <b>note5</b> | FF900H- FF987H         | FF900H- FF9BFH         | FF900H- FF99FH         | -  | FF900H- FFA7FH                            | FF900H- FFA7FH                            | R5F10RxG (x = B, F, G, J, L)                   |
| RL78/L13              | 16K                 | 1K   | 4K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F10WLA, R5F10WMA                             |
|                       | 32K                 | 1.5K | 4K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F10WLC, R5F10WMC                             |
|                       | 48K                 | 2K   | 4K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F10WLD, R5F10WMD                             |
|                       | 64K                 | 4K   | 4K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F10WLE, R5F10WME                             |
|                       | 96K                 | 6K   | 4K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F10WLF, R5F10WMF                             |
|                       | 128K                | 8K   | 4K                | DFD00H- FE2FFH <b>note5</b> | DFD00H- DDF87H         | DFD00H- DDFBFH         | DFD00H- DDF9FH         | DFD00H- FE2FDH                             | DFD00H- FE07FH                            | DFD00H- FE07FH                            | R5F10WLG, R5F10WMG                             |
| RL78/L1A              | 48K                 | 5.5K | 8K                | FE900H- FECFFH <b>note5</b> | FE900H- FE987H         | FE900H- FE9BFH         | FE900H- FE99FH         | FE900H- FECFDH                             | FE900H- FEA7FH                            | FE900H- FEA7FH                            | R5F11MMD                                       |
|                       | 64K                 | 5.5K | 8K                | FE900H- FECFFH <b>note5</b> | FE900H- FE987H         | FE900H- FE9BFH         | FE900H- FE99FH         | FE900H- FECFDH                             | FE900H- FEA7FH                            | FE900H- FEA7FH                            | R5F11MxE (x = M, P)                            |
|                       | 96K                 | 5.5K | 8K                | FE900H- FECFFH <b>note5</b> | FE900H- FE987H         | FE900H- FE9BFH         | FE900H- FE99FH         | FE900H- FECFDH                             | FE900H- FEA7FH                            | FE900H- FEA7FH                            | R5F11MxF (x = M, P)                            |
|                       | 128K                | 5.5K | 8K                | FE900H- FECFFH <b>note5</b> | FE900H- FE987H         | FE900H- FE9BFH         | FE900H- FE99FH         | FE900H- FECFDH                             | FE900H- FEA7FH                            | FE900H- FEA7FH                            | R5F11MPG                                       |
| RL78/L1C              | 64K                 | 8K   | 8K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F110xE (x = M, N, P), R5F111xE (x = M, N, P) |
|                       | 96K                 | 10K  | 8K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F110xF (x = M, N, P), R5F111xF (x = M, N, P) |
|                       | 128K                | 12K  | 8K                | -                           | -                      | -                      | -                      | -  | -   | -   | R5F110xG (x = M, N, P), R5F111xG (x = M, N, P) |
|                       | 192K                | 16K  | 8K                | FBF00H- FC2FFH <b>note5</b> | FBF00H- FBF87H         | FBF00H- FBFBFH         | FBF00H- FBF9FH         | FBF00H- FC2FDH                             | FBF00H- FC07FH                            | FBF00H- FC07FH                            | R5F110xH (x = M, N, P), R5F111xH (x = M, N, P) |
|                       | 256K                | 16K  | 8K                | FBF00H- FC2FFH <b>note5</b> | FBF00H- FBF87H         | FBF00H- FBFBFH         | FBF00H- FBF9FH         | FBF00H- FC2FDH                             | FBF00H- FC07FH                            | FBF00H- FC07FH                            | R5F110xJ (x = M, N, P), R5F111xJ (x = M, N, P) |

**note1**  
The start address of Self RAM areas is fixed, and the total size of Self RAM is reserved in the direction of upper address.

**note2**  
The Self RAM size used by EEL T01 and EEL Pack01 is dependent on the number of "EEL variables (DataID)" to be used. Please find size of Self RAM using the following calculating formula.  
512 + N \* 2 byte, where N=1~255: number of the EEL variables(Data ID)

**note3**  
The Self RAM size used by EEL T02 and EEL Pack02 is dependent on the number of "EEL variables (DataID)" to be used. Please find size of Self RAM using the following calculating formula.  
256 + N \* 2 byte, where N=1~64: number of the EEL variables(Data ID)

**note4**  
In case of using less than V2.20 of FSL T01 and FSL Type01, Self RAM area is "FF300H-FF309H".

**note5**  
In case of using less than V2.20 of FSL T01 and FSL Type01, the 10 bytes addition is necessary for the upper address direction for Self RAM area.  
ex.) RL78/G13 ROM:64KB, RAM:4KB : FEF00H-FF2FFH+10 bytes → FEF00H-FF309H  
In case of using less than V2.20 of FSL T01 and FSL Type01, Self RAM area is "FEF00H-FF309H".

**note6**  
Functions supported in FSL T01 and FSL Type01 are only basic functions.  
Other functions are not supported.  
Basic function : FSL\_Init,FSL\_Open,FSL\_Close,FSL\_PrepareFunctions,FSL\_BlankCheck,FSL\_Erase,FSL\_IVerify,FSL\_Write,FSL\_StatusCheck

**note7**  
For the RL78/G11 group, only the status check internal mode is supported as the status check mode.  
Functions supported in FSL T01 and FSL Type01 are only functions for RL78/G11 group.  
Other functions are not supported.  
Functions for RL78/G11 group :  
FSL\_Init,FSL\_Open,FSL\_Close,FSL\_PrepareFunctions,FSL\_PrepareExtFunctions,FSL\_BlankCheck,FSL\_Erase,FSL\_IVerify,FSL\_Write,FSL\_GetBootFlag,FSL\_GetSwapState,FSL\_GetFlashShieldWindow,FSL\_SwapBootCluster,FSL\_InvertBootFlag,FSL\_SetFlashShieldWindow,FSL\_ForceReset

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