

RZ Ecosystem Partner Solution

Macronix Boot Code Integrity

OTA Function



Solution Summary

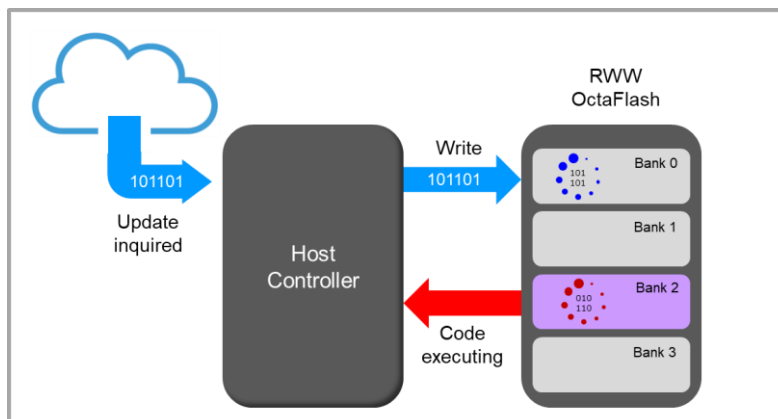
Macronix Flash continues to be the standard Boot Flash for Renesas RZ product evaluation boards, supported by RWW Flash.

Features/Benefits

- Macronix Octa/Quad SPI-Nor Flash is standard on the RZ product evaluation boards below.
 - RZ/A series: [RZ/A1H](#), [RZ/A1LU](#), [RZ/A2M](#), [RZ/A3UL](#)
 - RZ/T series: [RZ/T1](#), [RZ/T1M](#), [RZ/T2M](#)
 - RZ/N series: [RZ/N1D](#), [RZ/N1L](#), [RZ/N1S](#), [RZ/N2L](#)
 - RZ/G series: [RZ/G2L](#), [RZ/G2UL](#), [RZ/G2LC](#) (Under Preparation)
- MX25 / 66 LW / UW series support Macronix's original RWW (Read-while-write) function.
- It is an indispensable function to realize OTA function that updates various data on the network in the future, be able to write to other banks while executing the program from an external.

Diagrams/Graphics

- Updates can be carried out while application is actively running from Flash.
- Always have original firmware to roll back. Guaranteed no vehicle downtime regardless of update errors.



Target Markets and Applications

- OTA

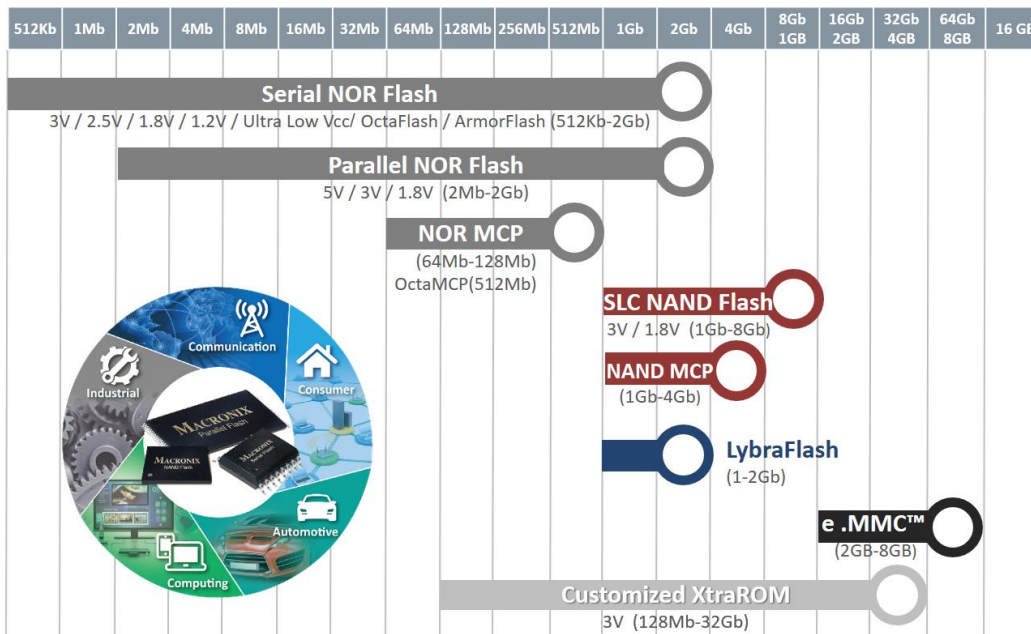
Innovating for Today and Tomorrow

Macronix, a leading integrated device manufacturer in the Non-Volatile Memory (NVM) market, provides a full range of NOR Flash, NAND Flash, and ROM products. With its world-class R&D and manufacturing capability, Macronix continues to deliver high-quality, innovative and performance driven products to its customers in the consumer, communication, computing, industrial, automotive, networking and other segment markets.

Macronix is one of the very few suppliers offering a wide range of Serial NOR Flash products from 512Kbit to 2Gbit densities. We also provide Flash products with extremely small packages and very thin packages for space-constrained applications to meet the market trend. In addition, we have launched our 19-nanometer NAND Flash and e•MMC™ product family, which are ideal for embedded applications demanding higher quality and reliability

Macronix owns one 12-inch wafer fab (Fab 5) and one 8-inch wafer fab (Fab 2). Macronix designs and fabricates its nonvolatile memory products in Fab 5 & Fab 2.

COMPREHENSIVE PRODUCT PORTFOLIO



MACRONIX

Note: e.MMC™ is the trademark of JEDEC/MMCA.

HIGHLIGHT PRODUCTS

 Security	 LybraFlash	 High Performance	 Low Power
ArmorFlash <ul style="list-style-type: none"> • AEC-Q100 Compliant • NIST Cryptographic Algorithm Validation Program 	LybraFlash <ul style="list-style-type: none"> • High Reliability & Longevity • The Optimum Solution for Gigabit Flash Memory 	OctaBus Memory <ul style="list-style-type: none"> • Extreme Speed: 250 MHz with 500 MB/s • Power "Instant-on" GUI Application 	Ultra Low Vcc <ul style="list-style-type: none"> • Wide Range Vcc 1.65 – 3.6V • Ultra Low Vcc 1.2 V • Power Saving & Simple System Design

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