

## RZ Ecosystem Partner Solution

# Macronix Boot Code Integrity OTA Function



### Solution Summary

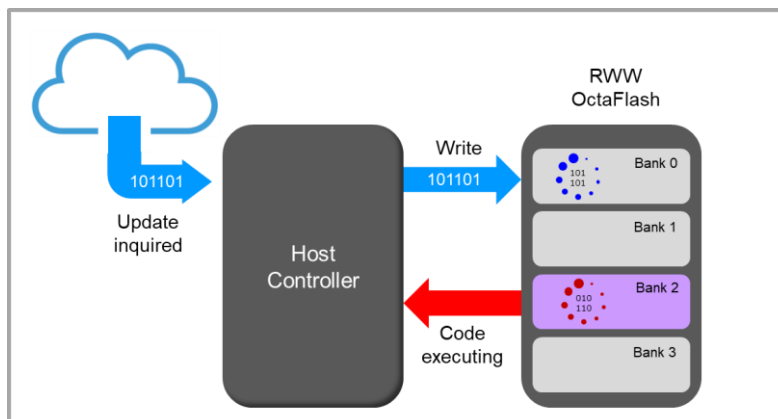
Macronix Flash continues to be the standard Boot Flash for Renesas RZ product evaluation boards, supported by RWW Flash.

### 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

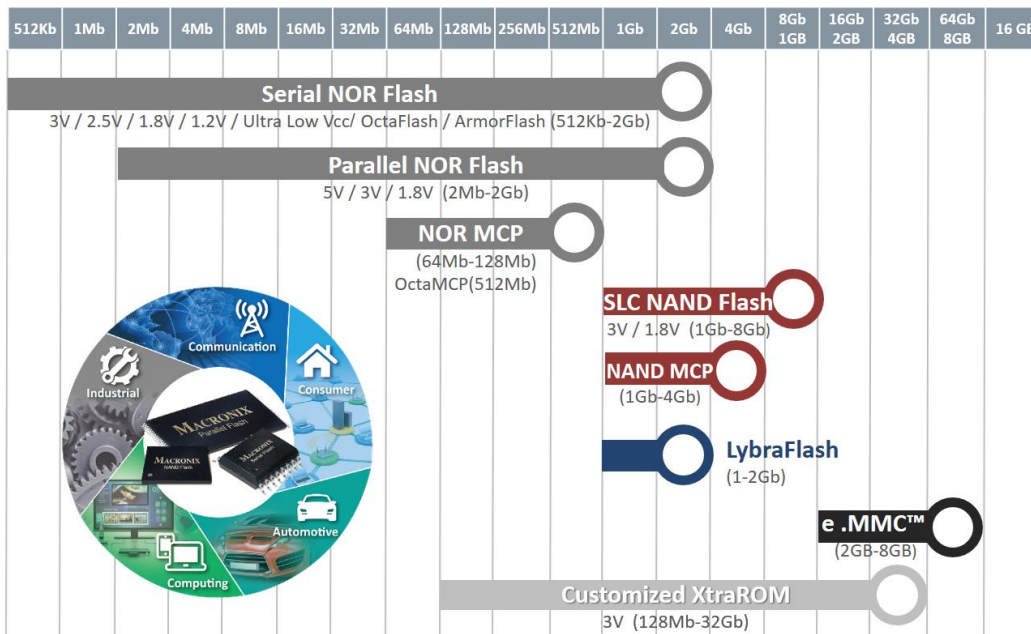
## Innovating for Today and Tomorrow

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



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

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## HIGHLIGHT PRODUCTS

 <b>Security</b>	 <b>NOR</b> / <b>NAND</b>	 <b>High Performance</b>	 <b>Low Power</b>
<b>ArmorFlash</b> <ul style="list-style-type: none"> <li>• AEC-Q100 Compliant</li> <li>• NIST Cryptographic Algorithm Validation Program</li> </ul>	<b>LybraFlash</b> <ul style="list-style-type: none"> <li>• High Reliability &amp; Longevity</li> <li>• The Optimum Solution for Gigabit Flash Memory</li> </ul>	<b>OctaBus Memory</b> <ul style="list-style-type: none"> <li>• Extreme Speed: 250 MHz with 500 MB/s</li> <li>• Power "Instant-on" GUI Application</li> </ul>	<b>Ultra Low Vcc</b> <ul style="list-style-type: none"> <li>• Wide Range Vcc 1.65 – 3.6V</li> <li>• Ultra Low Vcc 1.2 V</li> <li>• Power Saving &amp; Simple System Design</li> </ul>

✉ Ask Engineering



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