

Product Family

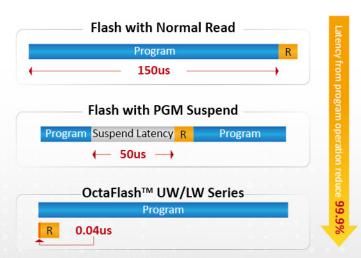
Macronix's OctaFlash UW/LW memory family features a multi-bank architecture with concurrent operation and densities ranging from 64Mb to 2Gb. This distinct architecture enables read access from one memory bank while simultaneously writing to another.

Key Features

- Instant-on, high performance @ 400 MB/s throughput.
- Over-the-Air (OTA) update ready.
- High efficiency enabling read access from one memory bank while writing to another.
- Supports eXecution in Place (XiP) for large applications.
- Automotive Grade 1 (-40°C to +125°C)
- ECC for 1b-correction and 2b-detection for functional safety.
- Functional Safety ISO26262 ASIL B Compliant & ASIL D Ready.

Benefits for XiP operation:

- Reduce data write latency over 99%.
- Enhance power consumption by improving CPU efficiency.



Density Voltage **Part Number** 1.8V MX66UW2Gx45G 2Gb 3٧ MX66LW2Gx45G 1.8V MX66UW1Gx45G 1Gb 3V MX66LW1Gx45G MX25UW51x45G 1.8V 512Mb MX25LW51x45G 3٧ 1.8V MX25UW25x45G 256Mb 3V MX25LW25x45G 128Mb MX25UW12x45G 1.8V 64Mb 1.8V MX25UW6x45G

Benefits for OTA update:

- No system downtime. Updates can be carried out while application is actively running from flash.
- Partitions for keeping firmware roll back capability.

