

Embedded ReRAM IP for Advanced Intelligent Devices

Weebit Nano's mission is to create a leap forward in storage and computing capabilities for a new generation of intelligent devices. These devices, from tiny IoT sensors to advanced AI and cloud computing platforms, can address some of the world's largest challenges. Weebit delivers a ground-breaking Non-Volatile Memory (NVM) technology – a critical component of most electronic devices.

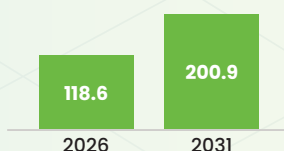
The company's Resistive Random Access Memory (ReRAM) delivers a combination of high performance, low power and low cost, not achievable by other NVMs.

The Opportunity

The NVM market is expected to reach US\$200B by 2031, and ReRAM is expected to take a rapidly growing part of this market. The industry needs a new NVM, since flash memory, the incumbent technology, has cost, scalability, performance and power limitations when being embedded in next-generation Systems-on-Chips (SoCs).

Harnessing its leading technology, deep expertise, and passion for innovation, Weebit is delivering NVM technology that is designed to be the successor to flash memory.

Global NVM Market (US\$B)¹



Disrupting Semiconductor Memory: Weebit ReRAM

From the start, Weebit has focused on creating NVM that is not only the best technically but is also commercially viable. This philosophy led Weebit to create its ReRAM using only fab-friendly materials, with no requirements for any specialized tools or equipment – so manufacturers can quickly reach mass production with minimal investment.

Weebit ReRAM is a silicon-proven embedded NVM technology for next-generation semiconductor devices. Available in qualified foundry processes, it delivers fast access, ultra-low power consumption, high endurance, and simple integration.

The technology has a lower carbon footprint compared to any other NVM and is therefore more environmentally friendly. It consumes less power, requires fewer natural resources and lower energy to manufacture, and does not use rare earth materials.



Founded: 2015

Located in Israel (HQ), France & US; Sales worldwide



ASX:WBT

Traded on the Australian Stock Exchange



Proven, protected technology

Fully qualified per JEDEC and AEC-Q100; Available for chip designers; >100 patents & applications



World-leading team

+70 employees (~90% engineers/scientists; 19 PhDs)



Current business model

Product & IP licensing to semiconductor companies and fabs



Multiple commercial deals

Deeply engaged with most tier-1 foundries and IDMs

Applications for Weebit ReRAM



Mixed-signal, Analog and Power ICs



Aerospace and Defense



IoT Devices



Secure Devices



Edge AI Processing



Data Logging



Automotive



Neuromorphic Computing



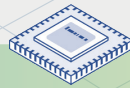
Data Center



Medical Devices

¹ Source: Mordor Intelligence.

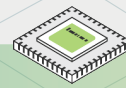
Weebit ReRAM – Featured Products



Weebit ReRAM NVM in SkyWater 130nm CMOS

Radiation-tolerant embedded NVM IP for high-reliability systems

- Fully qualified per JEDEC and AEC-Q100 and available now
- Designed for analog/mixed-signal, IoT, automotive, industrial, and medical



Weebit ReRAM NVM in DB HiTek 130nm BCD

Silicon-proven embedded NVM IP for power and mixed-signal ICs

- Fully qualified and available today
- Optimized for BCD processes
- Ideal for PMICs, motor control and industrial devices

Weebit ReRAM Advantages vs. Flash

3-4x

Lower added wafer cost

> 10x

Better Endurance

~100x

More energy efficient

<28nm

Scales to processes far below limits of flash

150°C

High-temperature reliability for automotive profiles

~350x

Better radiation tolerance

~10x-100x

Faster programming time

0

Interference w/ analog & power devices

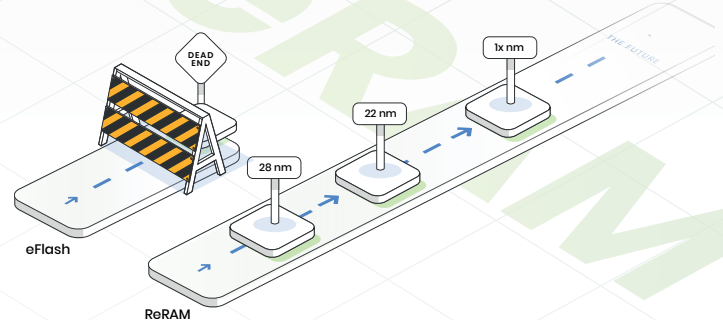
Strategic R&D Partner



For more than two decades, CEA-Leti, the leading French micro-electronics institute, has developed advanced memory technologies such as ReRAM cells (RRAM) and back-end-of-line (BEOL) selectors and has a deep understanding in the ReRAM domain.

Since 2016, Weebit has partnered closely with CEA-Leti on collaborative research and development efforts toward ever more robust and resilient memory arrays while supporting key commercialization steps.

Weebit ReRAM: Scaling to Advanced Nodes



Powerful Combination of Expertise

Weebit's unique combination of expertise allows it to provide highly innovative, differentiated solutions.

The company's world-class talent spans the four key NVM disciplines – device physics, process, analog design, and digital design & algorithms.

This enables Weebit to continuously enhance its technology and rapidly respond to customer needs.

