



neo Fact Sheet

semiconductor

We are a high-tech company focused on 3D NAND and DRAM technologies development, including 23+ inventions that have been granted U.S. patents.



VISION

Making digital business and consumer products more affordable, performant, and sustainable.



MISSION

Accelerating innovation roadmaps for manufacturers and customers of non-volatile and volatile memory.



SOLUTION

Offering unique architectures enabling product optimizations for better cost, speed, and efficiency.

WHY NEO SEMICONDUCTOR?

Information technology continues advancing at an accelerating rate, especially within cloud and edge computing environments. Yet, memory and storage cannot meet the demand for faster data created by processors making performance leaps of up to 10x per generation.

With Neo Semiconductor, memory and storage manufacturers can non-disruptively accelerate their innovation roadmaps to deliver faster products sooner, at lower cost, and with better sustainability.

OUR SOLUTIONS

Neo Semiconductor licenses architecture portfolios to optimize the cost, performance, and sustainability of the most used non-volatile and volatile memory.

Our portfolios include the following:

- X-NAND™ for 3D NAND flash.
- X-DRAM™ for Synchronous DRAM (SDRAM).
- 3D X-DRAM™ for three-dimensional SDRAM.

These architectures are compatible with present and future generations of roadmaps, technologies, processes, and plants (fabs). Without our solutions, memory and storage manufacturers, and their customers, face the challenges of delayed innovation resulting in higher costs, slower performance, and lower efficiency.

CORPORATE PROFILE

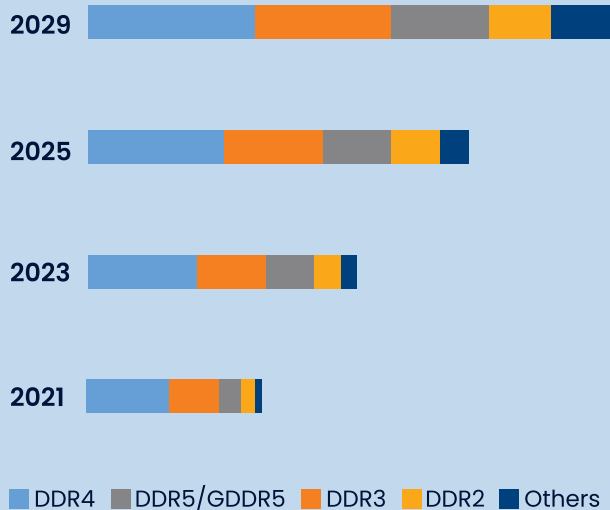
NEO Semiconductor is a high-tech company focused on advancing 3D NAND flash and DRAM technologies. The company was founded in 2012 by Andy Hsu and a team in San Jose, California, and owns more than 23 U.S. patents.

In 2020, the company made a breakthrough in 3D NAND architecture named X-NAND™ that can achieve SLC performance from TLC and QLC memory to provide high-speed, low-cost solutions for many applications, including 5G and AI. In 2022, the company launched its X-DRAM™ technology, representing a new architecture that can deliver DRAM with the world's lowest power consumption. In 2023, NEO launched its groundbreaking 3D X-DRAM™ technology, a game changer in the memory industry, enabling the world's first 3D NAND-like DRAM to solve capacity scaling bottlenecks and move the market past the limitations of 2D DRAM.

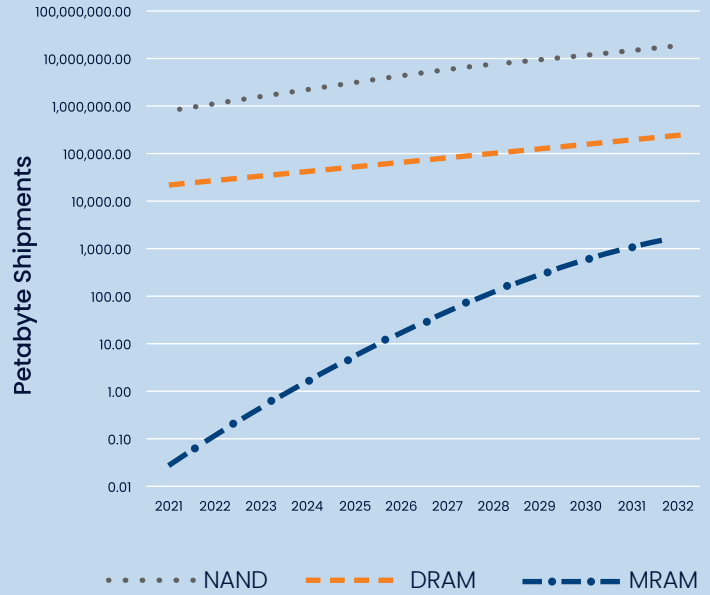
GO-TO-MARKET STRATEGY

As a small company, we plan to initially focus on fabless semiconductor companies to exceed our early customers' expectations, then expand to memory and storage manufacturers when the time is right.

Technology Segment Overview



DRAM market growing at 6% CAGR to \$159.1B by 2029
Source: Maximize Market Research



Capacity Shipment Growth Projections for NAND, DRAM and MRAM
Source: Coughlin Associates

NAND Market Key Players

Source: Maximize Market Research

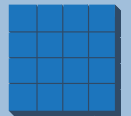
- Samsung Electronics Co.Ltd.
- Toshiba Corporation
- SK Hynix Semiconductor Inc.
- Western Digital
- Micron Technology Inc.



DRAM Market Key Players

Source: Maximize Market Research

- Samsung Electronics Co., Ltd.
- SK Hynix Inc
- Micron Technology, Inc.



LEADERSHIP TEAM

- Andy Hsu | Founder and Chief Executive Officer
- Ray Tsay | Co-founder and VP of Engineering

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