

FOCUS

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MEMPHIS
MEMORY
ESSENTIALS

Everything you need to know about the semiconductor memory industry, from legacy technologies to latest innovations.

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Withdrawals, Wars, and What You Can Control

It's hard to keep up with the news these days with so many things going on simultaneously. The global economy is facing a period of heightened volatility – again. But this time, several factors collide: **Geopolitical instability**, trade restrictions, and **tariff uncertainty** clash with accelerated **semiconductor innovation cycles**.

Only a couple of months after the big three memory manufacturers announced their exit from DDR3, DDR4 faces the same fate. TrendForce has confirmed rumors of an impending production **end of DDR4** from the big players.

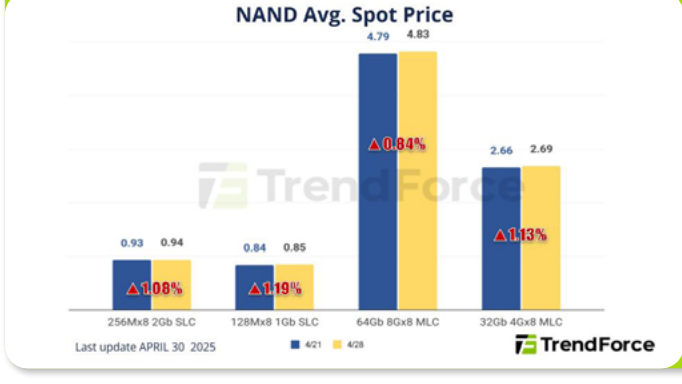
The more distractions appear on the horizon, the more important it is to **stay focused on the things you can control**. And although we are entering summer, it is timely that we are supporting an athlete, Ignatio (Nacho) Pellejero, on his way to prepare for one of the toughest bike races in the world: The Iditarod Trail Invitational in Alaska, a bike race stretching for 1,000 miles from Anchorage to Nome in some of the harshest conditions imaginable.

Why, you might ask? Because, although it might not seem obvious at first, we share the same values that keep us on track – Nacho on his preparations for the race, and us on our business goals: **#focus**, **#resilience**, and **#appreciation**.

This is an invaluable reminder that in times of unrest, we need to stay focused on the things we can control and have an impact on. So we focus on what we know best: the memory market. And we provide you with insights and recommendations on the upcoming **discontinuations of eMMC and DDR4**, as well as interesting facts and **comparisons of FeRAM and EEPROM**.

If you haven't already, you should register for our [webinar on eMMC](#).

Stay focused! And reach out if you have any questions.



eMMC in Transit

Are you affected by the upcoming eMMC discontinuation? Samsung's decision to phase out MLC NAND production by next year will have a considerable impact on B2B industries such as automotive, medical, or industrial control markets as well as embedded and IoT systems.

Join us for our next webinar to find out everything you need to know about the upcoming eMMC discontinuations!

Register [here](#).

MLC NAND Price Hikes

The NAND spot market saw an impact from the US tariff discussion. And while transactions resumed again following the announcement of the buffer period, the market still sees uncertainty. TrendForce Corporation sees sluggish buyer activity with one exception: MLC continues to see a strong demand. This is fueled by the upcoming eMMC discontinuation later this year.

Read more [here](#).



Looming DDR4 Discontinuations

TrendForce confirms that the three major DRAM suppliers have announced plans to stop producing DDR3 and DDR4 DRAM. This has triggered the stockpiling of related memory products. The news of the discontinuation partially offsets the wait-and-see sentiment stemming from US tariff policies and caused price hikes.

Is your supply secure? We have alternatives from other suppliers and can help with a last-time buy.

Read more [here](#).

How to reap AI for industrial applications without HBM?

AI and HBM are THE current trends in our industry. But did you know that there really are only very few players who dominate the market? What will we see for AI and HBM? How can smaller industrial players launch AI solutions of their own even without access to HBM?

Our Marco Mezger and Peter Poechmueller discussed what they see in the market, and the role of “emerging memory” technologies like MRAM, ReRAM or FeRAM.

Read more [here](#).



QSPI NAND Flash with Breakthrough Read-Speed

GigaDevice has launched its GD5F1GM9 high-speed QSPI NAND Flash, which features breakthrough read speeds and innovative Bad Block Management functionality, two key weaknesses of traditional SPI NAND.

It combines the read performance of NOR Flash with the large capacity and cost-effectiveness of NAND Flash, making it the ideal choice for fast-boot in security, industrial, and IoT applications.

Read more [here](#)

Reach out if you are interested in further information or samples!

Factory Automation: Enhanced Reliability with FeRAM

Factory Automation: Enhanced Reliability with FeRAM Robotic systems, particularly those relying on Human-Machine Interfaces (HMIs), require memory components capable of high-speed data writing, non-volatility, and resilience under harsh operating conditions to minimize downtime and enhance operational continuity.

Did you know that FeRAM is a superior choice for high-reliability, low-latency factory automation applications? We compare its advantages against EEPROM, which is typically used in factory automation environments.

Read it [here](#).



Elevating Elevators with FeRAM

What happens with an elevator during a power outage? Modern systems will try to use the cab momentum to push it to the next floor and open the doors. To do that, the elevator has to track a lot of data: its position in operation, passenger weight, acceleration, brake usage, and door operations.

Here's where EEPROM, which is traditionally used in elevator control systems, has its flaws. Find out what advantages the FeRAM brings to elevator control systems.

Read more [here](#)

A (Bike) Journey of Shared Values

We support Ignatio Pellejero on his ambitious path to complete one of the most challenging bike races in the world: Iditarod Trail Invitational. Why? Because the values for success in the race are the ones we live by in our daily business: Focus, Resilience, and Appreciation.

We both **focus on our goals**, but **it takes resilience** to endure the elements, aka the ups and downs of the semiconductor market. And you need to **appreciate the journey**, the successes, the setbacks, and the team.

Read more [here](#).

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