WE KNOW MEMORY

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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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Is the Race on (again)?

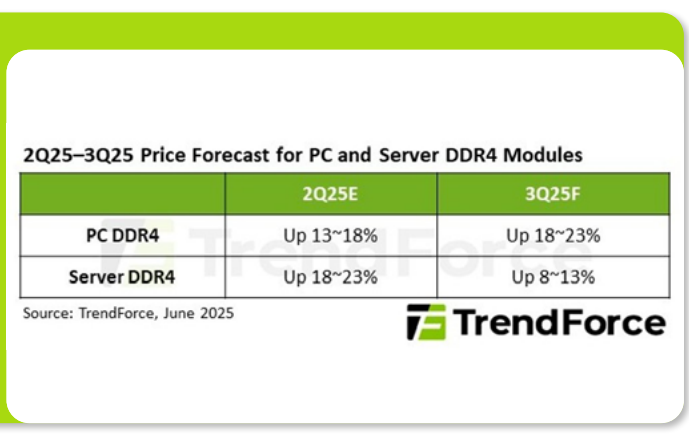
Following the announcement by several manufacturers to wind down production of eMMC, DDR4 is next on the list to see a significant reduction in output. This leads to spiking prices, which are further fueled by tariff uncertainties. Are we heading into a simultaneous shortage in both Flash and DRAM at the same time? Spiraling prices are a first indication.

Staying informed is the best strategy in situations like these. For this reason, we are sharing the recording of our latest webinar, in which we provide insights into the current eMMC market situation as well as immediate and long-term actions. Furthermore, we compare eMMC to other Flash memory technologies that might be suitable alternatives to transition to from eMMC.

As to more positive news, we have a new addition to our line card: XSemitron and its range of SPI NAND and NOR.

While we are preoccupied with Flash memory and DRAM, FeRAM and MRAM are evolving and making a case for their use in AI applications and Edge AI.

Read all about it below and mark your calendar for September 10 for our next webinar. This time on DDR4.



DDR4 Price Forecast 2H 2025

According to TrendForce, DDR4 contract prices for servers and PCs are expected to rise more sharply in the second quarter of 2025 due to two key factors: major DRAM suppliers scaling back DDR4 production and buyers accelerating procurement ahead of U.S. tariff changes. As a result, server DDR4 contract prices are forecast to rise by 18–23% QoQ, while PC DDR4 prices are projected to increase by 13–18%, both surpassing earlier estimates. Reach out if you want to learn more about potential alternatives.

The full TrendForce story is here.

Welcome XSemitron to our Linecard

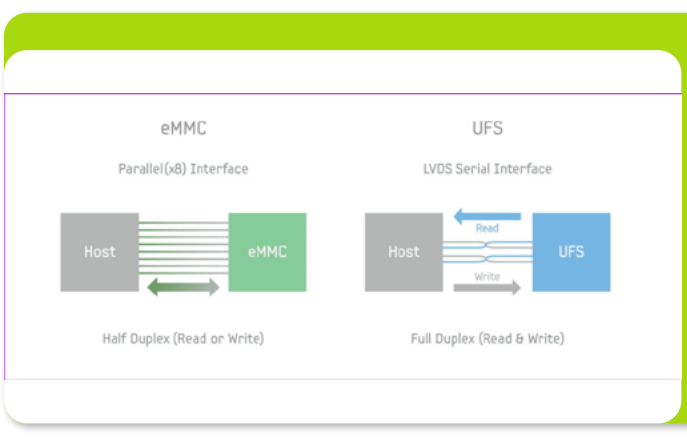
We have added XSemitron Technology, a provider of high-performance NAND flash and NOR flash memory products, to our portfolio. XSemitron offers a comprehensive range of code-type Flash memory products, including SPI NOR and SPI NAND Flash, with capacities ranging from 2 Mbit to 8 Gbit. These products are renowned for their rapid read speeds, high erase and write endurance, and exceptional reliability, making them suitable for a wide range of applications, including AIoT and Consumer Electronics, as well as industrial, medical, and automotive industries.

Read more here.

eMMC in Transition: Webinar Replay

Samsung's decision to phase out MLC NAND production by next year will have a considerable impact on B2B industries such as automotive, medical, industrial control markets, and embedded and IoT systems. On May 22 we outlined implications and discussed alternative technologies that are worth considering transitioning to. Did you miss the webinar? Then you can listen to the replay now.

Find it here.



eMMC Compared

With eMMC production winding down significantly, it's likely to cause supply chain issues. And while there are manufacturers like Intelligent Memory, Forsee, ESMT or SkyHigh that still provide eMMC, a transition to a newer technology is inevitable in the long run. For Wevoler, we compared eMMC with UFS, SD, and SSD technologies to help developers match the right technology to the right application.

Read it here.

The Potential of FeRAM for AI

Ferroelectric Random Access Memory (FeRAM or FRAM) is gaining significant attention recently as an alternative to High Bandwidth Memory (HBM) in AI applications. Marco Mezger, President of MEMPHIS Electronic, and Peter Poechmueller, CEO of MEMPHIS and Neumonda, discuss the benefits and use cases of FeRAM for AI applications.

Read more here

Do you want to know more about FeRAM and how your designs could benefit from incorporating this memory technology? Reach out!

Smart City Air Quality Monitoring

Urbanization, climate change, and industrialization have significantly impacted air quality, elevating the urgency for intelligent, distributed monitoring systems. We have created a new paper outlining an architecture that elevates air quality monitoring from raw data acquisition to actionable insights. To achieve this, edge-intelligent nodes are needed that integrate optical sensing, embedded AI inference, and non-volatile memory (NVRAM) technologies – specifically Magnetoresistive RAM (MRAM) and Ferroelectric RAM (FeRAM).

Read it here.

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