SUPPLY CHAIN SOLUTIONS TECHNICAL KNOWHOW MARKET EXPERTISE DESIGN-IN SERVICES LEGACY & EMERGING MEMORY "& 3rd SOURCES EOL MANAGEMENT

CUSTOM MEMORY MODULES



WE KNOW MEMORY

NO.03 MAR24

MEMPHIS

MEMORY

ESSENTIALS

WANT TO UP YOUR GAME?

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

Brought to you by MEMPHIS Electronic, your Memory Competence Center and DRAM module configurator. We are posting similar stories regularly on LinkedIn, so follow us there to stay on top of the news.

Want to up your game? **Tap into our Memory Competence Center**

The world is getting more complex and faster. Artificial Intelligence, autonomous driving and (industrial) Internet of Things are just some examples of memory-hungry applications that are changing customer and industrial applications.

Technologies evolve at an incredible speed and lead to complex products that - in industrial applications - need to combine longevity and high-performance, an interdependency that requires a deeper know-how on memory and its nuances to avoid product failures in the field. But it doesn't take just technological know-how, the semiconductor market is going through unprecedented up- and downward cycles that are hard to navigate.

Our specialization in memory has made MEMPHIS an undisputed expert in all things memory and we can deliver just that - technology know-how and market expertise.

Visit us at embedded world 2024 and see for yourself! Some of the highlights at the show include:

• We are launching the industry's first 100% lead-free MEMPHIS DRAM module family

• Samsung is showcasing its LPDDR solutions that support speedy, high-bandwidth data transfer without compromising

• Skyhigh Memory presents its eMMC family that is available in Industry standard and small form factor packages, as well as its latest LPDDR4/x components.

Intelligent Memory highlights its impressive range of managed NAND flash memory solutions.

• Neumonda is presenting its award-winning Rhinoe tester as well as two upcoming test generations.

Book a meeting with us at embedded world today or just drop by our booth 1-340. With this code, you can get your free entry ticket with this ticket code: ew24517722

Looking forward to seeing you there!



NAND Flash Prices are Going Up

In Q4 2024 TrendForce saw a substantial 24.5% QoQ increase in NAND Flash revenue and expects to see a continued increase by another 20% in Q1 of 2024.

This is underpinned by improvements in inventory levels as well as clients ramping up their orders to sidestep potential supply shortages and escalating costs. For these reasons, TrendForce expects NAND Flash contract prices to rise by an average of 25%.

Read more here.



DRAM Prices Up 20%

TrendForce reported a 29.6% QoQ increase in DRAM industry revenue for 4Q23, reaching US\$17.46 billion. Although this is mainly due to DDR5 and HBM shipments, another reason is the still ongoing strategic production control by leading manufacturers.

Looking ahead to 1Q24, the intent to further enhance profitability is evident, with a projected near 20% increase in DRAM contract prices.

Read more <u>here</u>.



The Industry's First 100% Lead-Free DRAM Module Family

We are launching 100% lead-free DRAM modules that range from DDR1 to DDR5. While others only cover the latest technology, we also have legacy DDR1 memory modules as completely lead-free option, so our customers don't have to rely on RoHS exemptions for their products. DDR1 modules are available today, DDR5 lead-free versions are sampling in Q2 and DDR3, DDR4 and DDR2 modules will follow in the course of the year.

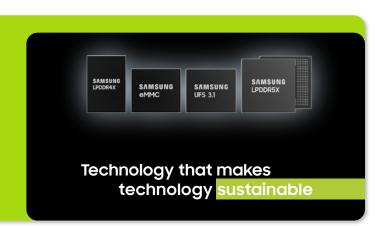
Learn more at embedded world 2024 at our booth 1-340 or here.



MicroSD cards with 10+ years longevity

True to its commitment to tailor-made solutions for embedded and industrial applications, Intelligent Memory has introduced new microSD and SD cards in industrial temperatures with a guaranteed longevity of 10 years and more. This means industrial and embedded customers don't have to re-design or requalify their products as often. And since the memory cards come in densities of 512MB, 1GB and 2GB, they don't have to pay for densities they don't need.

More at embedded world 2024 at our booth 1-340 or here.





Samsung Sustainable Mobile Memory for Industries

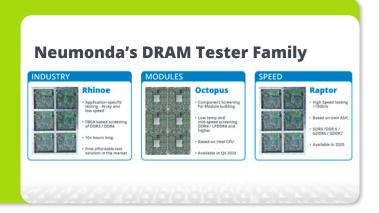
Many industry applications are going mobile, and Samsung has the products for mobile industrial and specialty markets. At embedded world Samsung highlights its low power DRAM products as well as its UFS 3.1 flash memory product line. These solutions support speedy, high-bandwidth data transfer without compromising energy efficiency.

Read more <u>here</u>.

Trust is Good, But Application-Specific DRAM Testing is Better!

Peter Pöchmüller, CEO of Neumonda, has been invited to explain the revolutionary new approach to DRAM testing that it has shown with it's Rhinoe DRAM Tester as part of the embedded world Conference Program. If you are attending the conferences, make sure you don't miss his presentation on April 11 at 9:30.

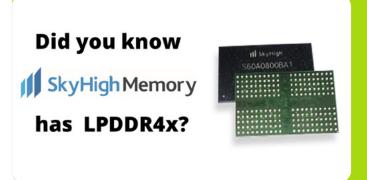
Find the full program <u>here</u>.



Meet the DRAM Testing Family – Rhinoe, Ocotpus and Raptor

Can't make it to the emedded world Conference? Then drop by our booth 1-340 to learn more about the Rhinoe DRAM Tester that has scooped an Elektra Award. But Rhinoe is only the first generation of DRAM testers that was developed for industry testing. Neumonda will provide details about its Octopus and Raptor testers designed for DRAM module and high-speed DRAM component testing.

Get your ticket <u>here</u>.



Get to know SkyHigh Memory's LPDRAM

SkyHigh Memory was founded in 2019 as joint venture of Cypress and Sk hynix. Initially it focused on non-volatile flash memory products such as SLC NAND and eMMCs. In late 2023, SkyHigh has entered a new field with the launch of its first LPDRAMs. At embedded world 2024, its 8Gb and 16Gb LPDDR4x components will be at display for the first time at the MEMPHIS booth 1-340.

Learn more at embedded world 2024 at our booth 1-340 or here.

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