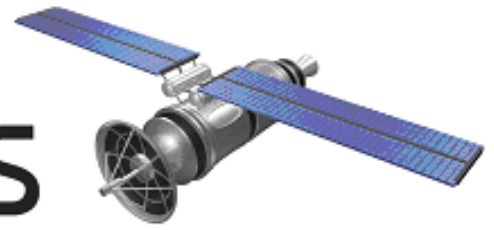


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The Global Semiconductor Industry Analysts

FH MONDAY

14 November 2022

Analog Devices and AUO Partner

AUO Corp. will use Analog Devices Inc.'s (ADI) matrix LED display driver technology in its automotive widescreen display portfolio. This industry-first technology enables local dimming, significantly improving power consumption by a minimum of 50% and supporting functional safety requirements.

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Jaguar Land Rover and Wolfspeed Collaborating

Jaguar Land Rover and Wolfspeed Inc. are partnering to supply silicon carbide (SiC) semiconductors for next-generation electric vehicles (EVs), delivering increased powertrain efficiency and extended driving range.

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SandboxAQ Buys Cryptosense

Attacks against large corporations are becoming more frequent and sophisticated. For French startup Cryptosense, much of the data should be protected by encryption, but isn't, likely due to cryptographic management issues. California-based SandboxAQ announced it has acquired Cryptosense to enhance the cybersecurity and encryption capabilities of its post-quantum cryptography solution

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TALK TO US



Plasma Polish Dry Etch Brings Next-Level SiC Quality

The fabrication process of any semiconductor can be divided into five main phases: crystal growth, slicing and grinding, polishing, epitaxy (epi), and device manufacturing. The third step, which we have generally called "polishing," is the last phase of substrate production.

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Samsung begins production of Gen 8 V-

Samsung said on Monday that it has begun production of 1Tb Gen 8 V-NAND. The chip has 236 layers, more than those of Micron's with 232 layers that launched early this year. Samsung used its double stack method as it did for Gen 7 V-NAND, sources said.

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Analog Devices and AUO Partner on Widescreen Automotive Displays

AUO Corp. will use Analog Devices Inc.'s (ADI) matrix LED display driver technology in its automotive widescreen display portfolio. This industry-first technology enables local dimming, significantly improving power consumption by a minimum of 50% and supporting functional safety requirements.

To deliver a more immersive experience, vehicles are incorporating widescreen displays throughout the cabin. Increased automation and autonomy are pushing the requirements of these displays from a typical infotainment hub to a safety center with visuals surrounding the vehicle. Furthermore, the automotive industry is accelerating the transition to electric vehicles, where power consumption is increasingly important.

Jaguar Land Rover and Wolfspeed Collaborating on SiC Technology Supply for Next-gen EVs

Jaguar Land Rover and Wolfspeed Inc. are partnering to supply silicon carbide (SiC) semiconductors for next-generation electric vehicles (EVs), delivering increased powertrain efficiency and extended driving range.

Under its Reimagine strategy, Jaguar Land Rover is transforming to an electric-first business, to become carbon net zero across its supply chain, products, services, and operations by 2039.

Wolfspeed's advanced SiC technology will be used specifically in the vehicles' inverter, managing the transfer of power from the battery to the electric motors. The first Range Rover vehicles with this advanced technology will be available from 2024, and the new all-electric Jaguar brand the following year.

SandboxAQ Buys Cryptosense to Deploy Post-Quantum Cryptography

Attacks against large corporations are becoming more frequent and sophisticated. For French startup Cryptosense, much of the data should be protected by encryption, but isn't, likely due to cryptographic management issues. California-based SandboxAQ announced it has acquired Cryptosense to enhance the cybersecurity and encryption capabilities of its post-quantum cryptography solution. Financial details remained undisclosed.

Cryptosense is a spin-off from the French National Institute for Computer Science Research (Inria). It was founded in 2013 after CEO Graham Steel realized that while cryptography is embedded in every company's applications and infrastructure, no one really has visibility into what it is doing, resulting in security gaps and vulnerabilities. Cryptosense provides a patented security software that is claimed to detect and correct vulnerabilities caused by cryptography misuse.

Plasma Polish Dry Etch Brings Next-Level SiC Quality

The fabrication process of any semiconductor can be divided into five main phases: crystal growth, slicing and grinding, polishing, epitaxy (epi), and device manufacturing. The third step, which we have generally called "polishing," is the last phase of substrate production. This step is particularly important to atomically smooth the substrate's surface, obtaining a high level of planarity, essential for the subsequent processing of the wafer.

Although Chemical Mechanical Polishing (CMP) has been the most used technique for substrate polishing for some time, a newly introduced technology, Plasma Polish Dry Etch (PPDE), is emerging as a valid alternative proposed by Oxford Instruments Plasma Technology, a business unit of Oxford Instruments Plc., that can overcome some of the limitations offered by CMP.

Samsung begins production of Gen 8 V-NAND

Samsung said on Monday that it has begun production of 1Tb Gen 8 V-NAND. The chip has 236 layers, more than those of Micron's with 232 layers that launched early this year. Samsung used its double stack method as it did for Gen 7 V-NAND, sources said.

The tech giant said its 1Tb TLC(triple level cell) Gen 8 V-NAND had the highest bit density in the market. It also comes with Toggle DDR 5.0 interface, allowing for a data input/output speed of 2.4Gbps. The chip also supports PCIe 4.0 interface and will also support PCIe 5.0 later, Samsung said. Competition in NAND flash between Samsung, SK Hynix, and Micron has been intensifying in recent years