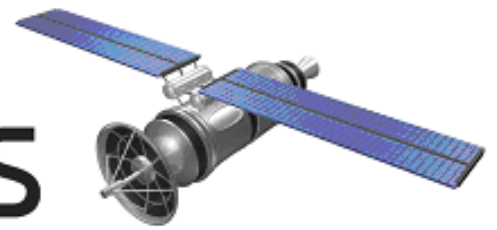


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The Global Semiconductor Industry Analysts

FH MONDAY

20 June 2022

Samsung and SK Hynix diversifying coolant supply chain

Samsung and SK Hynix are diversifying their supply chain for coolants used in semiconductor production following 3M's shutdown of its related factory in Belgium. Coolants are used in the etching process during wafer fabrication. They are spread through chillers to control the temperature during the process, which is prone to overheating.

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Nvidia bumps up TAO Toolkit for AI speech and vision

Nvidia released on Monday a new version of its TAO Toolkit to help developers accelerate creation of AI models for speech and vision AI applications and services.

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Arm aims new image signal processor at IoT embedded computer vision

Computer vision is almost always the first application that comes to mind when anyone starts talking about industrial IoT applications, and its increasing appeal means that image sensing and processing capabilities need to be embedded in a variety of device form factors and footprints.

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TALK TO US



Lattice launches ORAN stack, new FPGA with security in mind

Lattice Semiconductor has announced its latest application-specific FPGA solution stack, with this launch targeting the emerging Open Radio Access Network (ORAN) opportunity in the mobile sector.

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LB Semicon to enter FOWLIP space next year

Outsourced semiconductor assembly and test (OSAT) firm LB Semicon is planning to offer fan-out wafer-level package (FOWLIP) service next year at the earliest, TheElec has learned. The company completed the development of relevant technologies earlier this year and has been testing them with an analog chip customer since the first quarter, sources said.

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Samsung And SK Hynix Diversifying Coolant Supply Chain

Samsung and SK Hynix are diversifying their supply chain for coolants used in semiconductor production following 3M's shutdown of its related factory in Belgium.

Coolants are used in the etching process during wafer fabrication. They are spread through chillers to control the temperature during the process, which is prone to overheating.

3M accounts for around 90% of the production of coolants.

But in March, the company's factory in Belgium suspended production following the local government's shutdown from not meeting the latest strengthened Per- and Polyfluoroalkyl Substances (PFAS) requirements.

Nvidia Bumps Up TAO Toolkit For AI Speech And Vision

Nvidia released on Monday a new version of its TAO Toolkit to help developers accelerate creation of AI models for speech and vision AI applications and services.

TAO, which stands for Train, Adapt and Optimize, has been around for two years, and now includes TAO Toolkits as a service, allowing developers to integrate TAO into an existing AI service or build a new one with REST APIs. Also, developers can manage the Toolkit service on Kubernetes.

Developers can now also import from ONNX and use TAO features such as pruning and quantization.

Arm Aims New Image Signal Processor At IoT Embedded Computer Vision Apps

Computer vision is almost always the first application that comes to mind when anyone starts talking about industrial IoT applications, and its increasing appeal means that image sensing and processing capabilities need to be embedded in a variety of device form factors and footprints.

Mohamed Awad, VP of IoT and Embedded at Arm said in a blog post this week that the company kept that in mind while developing the Mali-C55 image signal processor, what he described as the smallest and most configurable image signal processor from Arm. The successor to the Mali-C-52, the new processor covers just half the silicon area size of previous product generations, he said

Lattice launches ORAN stack, new FPGA with security in mind

Lattice Semiconductor has announced its latest application-specific FPGA solution stack, with this launch targeting the emerging Open Radio Access Network (ORAN) opportunity in the mobile sector.

The Lattice ORAN solution stack, which is the company's fifth stack in a series aimed at different markets, enables robust control data security, flexible fronthaul synchronization, and low-power hardware acceleration for secure, adaptable ORAN deployments.

The move comes as the market for ORAN, which disaggregates the RAN portion of the mobile network that traditionally has been subject to inflexible single-vendor approaches that locked service providers into one vendor, is expected to surge over the next six years. Kenneth Research is predicting an 85% compound annual growth rate during that period, putting the expected market value at \$22 billion by 2028.

LB Semicon to enter FOWLIP space next year

The company completed the development of relevant technologies earlier this year and has been testing them with an analog chip customer since the first quarter, sources said.

FOWLIP puts I/Os on the outer surface of chips, unlike fan-in packages that have them inside the chip.

This reduces the chip size and allows a ball layout. The chips are also mounted on the wafer directly and not through a printed circuit board, which allows vendors to save costs.

LB Semicon will likely offer FOWLIP for RF and power management ICs.