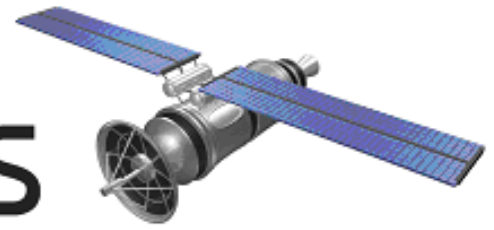


# FutureHorizons



The Global Semiconductor Industry Analysts

## FH MONDAY

10 October 2022

### Bosch set to acquire RF specialist ItoM

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### TALK TO US



### Arm teams with Corellium to speed IoT product development

Arm has made a number of moves in the last two years to increase support for IoT developers, its latest effort coming this week in the form of a deal under which Arm has licensed virtualization technology from Corellium and integrated it with the Arm Virtual Hardware (AVH) platform to accelerate IoT device development and testing.

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### EVENTS

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- March 2023- London UK

#### [Industry Forecast Briefing](#)

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### Tesla formally ditches ultrasonics for its vision

Tesla advised customers it is now building new Model 3 and Model Y cars without ultrasonic sensors (USS) as the company moves to its Tesla Vision camera and software sensing system for Advanced Driving Assistance Systems.

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## **Bosch Set To Acquire RF Specialist ItoM**

Bosch is set to acquire high frequency IC design company Semiconductor Ideas to the Market (ItoM) BV (Eindhoven, The Netherlands) for an undisclosed sum.

Former Philips engineers, including the current CEO Harm van Rumpt, founded ItoM in 1998. The company is specialized in high-frequency processing components and has 30 employees.

Bosch is making the acquisition to strengthen its expertise in high-frequency processing automotive SoCs. ItoM has development sites in Eindhoven and Enschede and both are to be expanded.

We have core expertise on mixed-signal IC design and bring a strong team to the table. Bosch offers the ideal framework to grow. I am convinced that the merger will open up completely new perspectives for our company and our employees," said Edwin Veldman, managing partner at ItoM.

## **ST Shares Its In-House STM32 Code On Github**

STMicroelectronics has created a hotspot on the GitHub open source repository to host trusted code developed in-house for its STM32 microcontrollers.

The STM32 Hotspot organization on GitHub hosts professionally developed embedded software projects for STM32 microcontrollers. The non-productized code was created by ST's in-house engineers, originally written for purposes such as exhibition demonstrations and proof-of-concept models.

Code examples like these would typically not be shared outside ST. The projects in STM32 Hotspot can help accelerate development of commonly needed functions and the code is ready to download free of charge and distributed under ST's usual licensing terms for direct integration in customers' own applications.

## **Infineon Keeps HyperRAM Relevant**

Nothing says enduring like a technology that's weathered mergers and acquisitions.

Infineon Technologies' latest iteration of its HyperRAM expansion memory can trace its roots back to Spansion, which merged with Cypress Semiconductor in late 2014. First announced in early 2015 as a companion RAM device, HyperRAM was designed for use in systems-on-chip (SoCs) and microcontrollers (MCUs), where both RAM and flash are connected to the same HyperBus interface; development of the initial HyperRAM technology was informed by the prior work on HyperBus and HyperFlash technologies.

Since the debut of HyperRAM, technologies and use cases have evolved, although the IoT has been a driving force for lower-power memory innovation over the past decade. With HyperRAM 3.0, Infineon is aiming the high-bandwidth, low-pin-count pSRAM-based volatile memory at applications requiring expansion RAM memory, including video buffering, factory automation, automotive vehicle-to-everything (V2X), and what it calls the artificial intelligence of things (AIoT), said Shivendra Singh, lead principal engineer for the company's HyperRAM products. It's also useful for any application that needs scratch-pad memory and data buffering for intense mathematical calculations, including embedded systems.

## **Arm teams with Corellium to speed IoT product development**

Arm has made a number of moves in the last two years to increase support for IoT developers, its latest effort coming this week in the form of a deal under which Arm has licensed virtualization technology from Corellium and integrated it with the Arm Virtual Hardware (AVH) platform to accelerate IoT device development and testing.

"We are committed to simplifying IoT development and enabling software and hardware co-design, stated Mohamed Awad, vice president, IoT and Embedded at Arm. "Through our partnership with Corellium, we have been able to rapidly expand Arm Virtual Hardware, an entirely new way for software developers to innovate and accelerate product design for diverse IoT devices, all in the cloud."

The Corellium partnership comes about one year after Arm announced the AVH platform as part of its unveiling of the Arm Total Solutions for IoT product suite.

## **Tesla formally ditches ultrasonics for its vision sensing approach**

Tesla advised customers it is now building new Model 3 and Model Y cars without ultrasonic sensors (USS) as the company moves to its Tesla Vision camera and software sensing system for Advanced Driving Assistance Systems. The company had earlier removed radar sensing from Model 3 and Model Y in 2021 and Model S and Model X in 2022.

The removal of 12 different USS sensors on the front and rear bumpers from Model 3 and Model Y vehicles will be extended to Model S and Model X in 2023, the company said in a recent notice on its support pages.