# FutureHorizons

The Global Semiconductor Industry Analysts

# FH MONDAY

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## Tata Partners with Renesas to Open Innovation Center

Tata and Renesas have opened a joint Innovation Center to build semiconductor designs and software solutions for the IoT, industrial, and automotive segments.

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## onsemi's EFK Fab Purchase Ups Its Sustainability Game

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## Infineon Technologies is to buy GaN Systems of Canada

The definitive agreement aims to boost Infineon's position in GaN for applications like mobile charging, data centre power supplies, residential solar inverters and onboard chargers for electric vehicles.

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**TALK TO US**

## Pulsiv launches cost optimised 75W, 100W reference designs

UK startup Pulsiv has developed two reference designs for 7W and 100W power supplies using its Osmium architecture that eliminates in-rush currents. The Osmium microcontrollers and AC to DC front-end circuit configurations are already available and the company has used these for the first in a series of reference designs.

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## EVENTS

Silicon Chip Industry Seminar

-March 2023– London UK

Industry Forecast Briefing

– September 2023– London UK

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## Radar technology will make Smart Speakers smarter

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At the MWC23 show in Barcelona eeNews Europe is meeting up with Dayana Penkova, she is Global Campaign & Content Marketing manager with Infineon. We are discussing how the Xensiv Radar Sensor can be used to improve the functionality of Smart Speakers.

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## Tata Partners with Renesas to Open Innovation Center for Next-gen Semiconductor Solutions Development

Tata Consultancy Services (TCS) and Renesas Electronics Corp. have opened a joint Innovation Center in Bengaluru and Hyderabad and will collaborate on radio frequency (RF), digital and mixed-signal design, and software development for innovative next-generation semiconductor solutions catering to the needs of a wide range of industries.

The inauguration ceremony was held in Bengaluru, attended by Rajeev Chandrasekhar, Minister of State for Skill Development and Entrepreneurship and Minister of State for Electronics and Information Technology, along with N. Ganapathy Subramaniam, Chief Operating Officer & Executive Director for TCS and Dr. Sailesh Chittipeddi, Executive Vice President & General Manager of IoT and Infrastructure Business Unit at Renesas.

## onsemi's EFK Fab Purchase Ups Its Sustainability Game

onsemi successfully acquired GlobalFoundries' (GF) 300-mm East Fishkill (EFK), NY, site and fabrication facility, helping onsemi manufacture products with high gross margins in high-growth and sustainable applications like electric vehicles (EVs) and energy infrastructure, CEO Hassane El-Khoury said in an exclusive interview with EE Times.

EFK offers an improved manufacturing cost structure due to the economics of scale of a 300-mm wafer compared to smaller wafer sizes," El-Khoury told EE Times. "While the highly automated wafer fab equipped with advanced toolsets enables us to produce superior quality chips that meet automotive standards, it is the skilled and experienced engineers that will improve our ability to ramp products to volume and reduce our time to market. With the EFK site, onsemi is adding complex CMOS capabilities [including 65-nm technology nodes] that are required for image sensor production to its manufacturing footprint.With the acquisition, onsemi added more than 1,000 engineers and technologists. U.S. Senator Chuck Schumer (D-NY) and J.D. Grom, senior advisor to the U.S. Secretary of Commerce on CHIPS Act implementation, were on hand for the event celebrating the acquisition, emphasizing the significance of domestic semiconductor manufacturing.

## Infineon Technologies Is To Buy Gan Systems Of Canada For $830 Million In Cash In A Likely To Trigger Consolidation In The Industry

The definitive agreement aims to boost Infineon's position in GaN for applications like mobile charging, data centre power supplies, residential solar inverters and onboard chargers for electric vehicles.

GaN Systems, founded in 2008, is headquartered in Ottawa and has more than 200 employees. It had raised over $170m in funding according to Crunchbase. It has a second source deal with Rohm of Japan, a direct competitor to Infineon.

CEO Interview: Jim Witham, GaN Systems

Other GaN technology developers include EPC, Transphorm, Cambridge GaN Devices and Vanguard International Semiconductor.

## Pulsiv Launches Cost Optimised 75W, 100W Reference Designs

UK startup Pulsiv has developed two reference designs for 7W and 100W power supplies using its Osmium architecture that eliminates in-rush currents.

The Osmium microcontrollers and AC to DC front-end circuit configurations are already available and the company has used these for the first in a series of reference designs.

Eliminating the in-rush current means that components can be smaller and can operate at low temperatures to extend expected lifetime and ensure long-term reliability even under convection cooling as well as removing the need for additional current limiting components.The cost-optimised reference designs offer 75W (85W peak) & 100W (150W peak) output power with universal mains input and 48V output.

## Radar Technology Will Make Smart Speakers Smarter

Radar technology in combination with a smart speaker will allow for new applications and functionalities

At the MWC23 show in Barcelona eeNews Europe is meeting up with Dayana Penkova, she is Global Campaign & Content Marketing manager with Infineon. We are discussing how the Xensiv Radar Sensor can be used to improve the functionality of Smart Speakers.

In addition to microphones or sensors, a radar will allow for people detection, health check, safety checks, the position of people in the room and the direction they are walking or moving. This is interesting for elder care, the radar in the smartspeaker can detect a fall or if a person will not react any more. The speaker can then alarm the emergency or family.