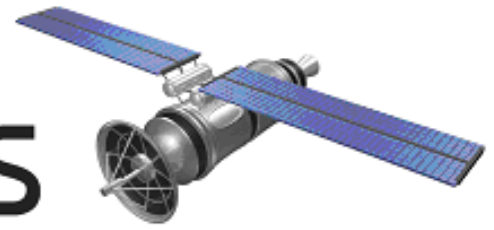


# FutureHorizons



The Global Semiconductor Industry Analysts

## FH MONDAY

21 May 2018

### GF Seeks Fab, ASIC Partners

PALO ALTO, Calif. — The new CEO of GlobalFoundries has a charter to improve financial performance of the privately held chipmaker. Thus, Tom Caulfield is seeking partners for the company that is a distant second in a hotly competitive race to make chips.

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### IIoT in ST's MEMS Business Crosshair

STMicroelectronics is making a big push into the Industrial IoT space with the announcement of a range of high-accuracy MEMS sensors and components designed to last for at least 10 years, serving the needs of advanced automation environments in which machines can be expected to perform for many years.

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### High-res mmWave 3D Imaging SoC Promises Improved Accuracy

LONDON — A new chip launched by Vayyar Imaging integrates an unprecedented number of transceivers and an advanced DSP to create high-resolution mmWave 3D imaging contours with high accuracy. The company claims that this breaks through current constraints in today's 3D imaging sensor technology.

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### TALK TO US



### Intel Losing Further Ground to Samsung in Sales

LAS VEGAS — Samsung Electronics lengthened its lead in semiconductor sales over second-ranked Intel in the first quarter, thanks to a continued boom in the memory market

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### Microsemi Deal May Spur Broader ReRAM Adoption

SAN FRANCISCO — A deal by Microsemi to license non-volatile resistive RAM (ReRAM) technology from Crossbar could be a significant catalyst paving the way for wider adoption of ReRAM, according to memory industry analysts.

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## **GF Seeks Fab, ASIC Partners**

PALO ALTO, Calif. — The new CEO of GlobalFoundries has a charter to improve financial performance of the privately held chipmaker. Thus, Tom Caulfield is seeking partners for the company that is a distant second in a hotly competitive race to make chips.

Caulfield needs a hand building a next-generation fab, probably at 3 nm, and expanding his ASIC services to attract new customers. Meanwhile, he started a reorganization geared to make the company more nimble and to hold his managers responsible for financial progress, he said in an interview with EE Times.

The new fab is probably best suited as an expansion of GF's existing Fab 8 in Malta, New York, where it is preparing to ramp a 7-nm node. Such a facility likely would need support from federal funds, but GF has other options leveraging its fabs in China, Germany, and Singapore.

## **IIoT in ST's MEMS Business Crosshair**

LONDON — STMicroelectronics is making a big push into the Industrial IoT space with the announcement of a range of high-accuracy MEMS sensors and components designed to last for at least 10 years, serving the needs of advanced automation environments in which machines can be expected to perform for many years.

As part of this strategy, the company has launched its first product, the IIS3DHHHC low-noise three-axis accelerometer, which is optimized for high measurement resolution and stability to ensure accuracy over time and temperature and will be available during 2018. The MEMS sensor targets precision inclinometers in antenna-positioning mechanisms for communication systems, structural health monitoring (SHM) equipment for keeping buildings and bridges safe, and stabilizers or levelers for a wide variety of industrial platforms. Its long-term accuracy and robustness are also ideal for high-sensitivity tilt and security sensors, as well as image stabilization in high-end digital still cameras (DSCs)

## **High-res mmWave 3D Imaging SoC Promises Improved Accuracy**

LONDON — A new chip launched by Vayyar Imaging integrates an unprecedented number of transceivers and an advanced DSP to create high-resolution mmWave 3D imaging contours with high accuracy. The company claims that this breaks through current constraints in today's 3D imaging sensor technology.

The advanced CMOS SoC covers imaging and radar bands from 3 GHz to 81 GHz with 72 transmitters and 72 receivers in one chip, enhanced by an integrated Tensilica P5 DSP with large internal memory. The company says that execution of complex imaging algorithms is all done without the need for any external CPU.

"We had to overcome several architectural challenges to achieve the overwhelming number of radio channels supported by a single chip, in terms of area, interconnects, and power consumption," said Raviv Melamed, co-founder, CEO, and chairman of Vayyar, in an interview with EE Times.

## **Intel Losing Further Ground To Samsung In Sales**

LAS VEGAS — Samsung Electronics lengthened its lead in semiconductor sales over second-ranked Intel in the first quarter, thanks to a continued boom in the memory market.

With \$18.6 billion in chip sales in the first quarter, Samsung outsold Intel by 23 percent. By comparison, in the first quarter of 2017, Intel still No. 1 in chip sales, 5 percent better than Samsung.

That the pendulum has swung so far in Samsung's favor demonstrates how impactful the current memory chip boom has been on the entire semiconductor industry. When Samsung topped Intel last year in semiconductor sales based on a tight market for both DRAM and NAND flash memory, it marked the first time since 1993 that Intel did not lead in the semiconductor industry in sales over the course of a full year.

## **Microsemi Deal May Spur Broader ReRAM Adoption**

SAN FRANCISCO — A deal by Microsemi to license non-volatile resistive RAM (ReRAM) technology from Crossbar could be a significant catalyst paving the way for wider adoption of ReRAM, according to memory industry analysts.

"This is one of those things that kind of feeds off itself," said Jim Handy, principal at Objective Analysis. "It could cause a snowball effect for Crossbar."

Microsemi — which is in the process of being acquired by Microchip Technology — said earlier this week it agreed to license Crossbar's ReRAM intellectual property to integrate into next-generation products manufactured at the 1x nm process node.