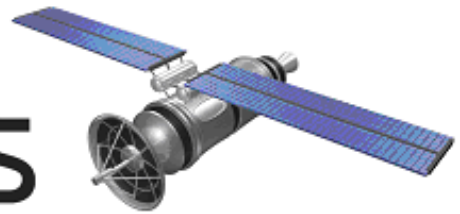


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The Global Semiconductor Industry Analysts

FH MONDAY

5 June 2017

EnSilica develops sureCore's new, Ultra-Low Power IoT

EnSilica, a leading independent provider of semiconductor solutions and IP, and sureCore, the low power SRAM IP leader, have announced that EnSilica has developed sureCore's new, ultra-low power IoT reference platform targeted principally at the development of the next generation of wearable consumer and medical applications.

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Toyota sells stake in Tesla as partnership dies

Toyota, the Japanese carmaker, has sold the last of its stake in Tesla as the electric car pioneer changes from potential ally to fierce competitor. The sale — which was completed by the end of 2016 but announced on Saturday — highlights how Toyota's strategic partnership with Tesla has fizzled out.

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NAND Shortage Drives Price Surge

Contract pricing for NAND flash memory surged by 20 to 25 percent in the first quarter, a strong testament to the undersupply condition that persists in the market, according to DRAMeXchange, a firm that tracks memory chip pricing.

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Intel to Strike Thunderbolt in CPUs

Thunderbolt is finally on the path to mass adoption thanks to Intel's move to integrate it in future processors and make licensing it easier.

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ARM Cores Target AI-powered Future

CAMBRIDGE, UK – ARM plc Monday (May 29) announced its two new application processor cores, the high-end Cortex-A75 and the mid-range Cortex-A55, as part of an ambitious goal to accelerate AI adoption and get an ARM processor core into every IoT device by 2035.

[read more](#)

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EnSilica Develops Surecore's New, Ultra-Low Power IoT Reference Platform

EnSilica, a leading independent provider of semiconductor solutions and IP, and sureCore, the low power SRAM IP leader, have announced that EnSilica has developed sureCore's new, ultra-low power IoT reference platform targeted principally at the development of the next generation of wearable consumer and medical applications.

With proven expertise in low power SoC design for battery powered applications, EnSilica's experienced silicon team is able to deliver a complete, turn-key service covering complex digital and analog/RF technologies for both ASICs and SoCs down to 28nm. The service extends from system architecting and design specification through development and implementation to the supply of production silicon. EnSilica also offers point services within the whole systems design, development and IC supply cycle. Additionally, EnSilica maintains in-depth partnership with all the major silicon foundries.

Toyota Sells Stake In Tesla As Partnership Dies

Toyota, the Japanese carmaker, has sold the last of its stake in Tesla as the electric car pioneer changes from potential ally to fierce competitor.

The sale — which was completed by the end of 2016 but announced on Saturday — highlights how Toyota's strategic partnership with Tesla has fizzled out.

The share disposal comes as Toyota prepares to launch its own purely electric car and as it steps up investment in a range of future technologies, from hydrogen fuel cells to self-driving vehicles.

The company said it had made the decision to sell after a "periodic review" of its investment portfolio.

Toyota bought roughly 3 per cent of Tesla for \$50m in 2010 as part of a deal that included the sale of its assembly plant in Fremont, California, to Elon Musk's electric car start-up. At the time, Tesla had made only a tiny number of high-end electric sports cars, but in 2012 it launched the highly successful Model S.

NAND Shortage Drives Price Surge

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NAND revenue typically falls off considerably between the seasonally strong fourth quarter and the the first quarter of the year, traditionally a slow season for end device shipments. However, in the first quarter of this year, global NAND revenue declined by just 0.4 percent, as the reduction of two-dimensional NAND capacity was severe enough to create tight demand, DRAMeXchange said.

Prices of mobile storage products such as embedded multi-chip package (eMCP), embedded multi-media card (eMMC) and universal flash storage (UFS) also continue climbing, DRAMeXchange said.

Intel to Strike Thunderbolt in CPUs

Thunderbolt is finally on the path to mass adoption thanks to Intel's move to integrate it in future processors and make licensing it easier.

With speeds of 40 Gbits/second, plug-and-play support and a single unified cable design, Thunderbolt should be the most adopted and accepted cabling interface in the market today. But sullied by a quagmire of complications around ports, licenses, hardware integration and more, its uptake has been somewhat stagnant.

When Thunderbolt was first released, the motherboards, systems and notebooks that integrated it had a significant price premium. With Thunderbolt 2 and now 3, costs have come down some, but accessories like expansion docks and external storage are still significantly more expensive than USB 3.0 or USB 3.1 counterparts.

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The Cortex-A75 offers performance increases versus previous generations, while the Cortex-A55 delivers both performance and efficiency increases. Both cores come with a level of configurability which makes them suitable for all the Cortex-A family's markets, in contrast to previous cores which have been optimized for specific applications (for example, the A73 for mobile applications or the A72 for servers).

Both cores are based on ARM's brand new DynamIQ technology, which the company is heralding as a way to redefine multi-core processing.