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The Global Semiconductor Industry Analysts

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Satellite-based Hybrid 5G Network Takes Shape

Lockheed Martin Corp. and Northern Virginia-based Omnispace LLC will explore joint development of a satellite-based 5G network promising global coverage. The proposed orbiting 5G network would link with consumer, corporate and government devices, offering what the partners said would be “ubiquitous communications worldwide” and “mobility.”

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Diamond-Based Quantum Accelerator Might Make Quantum Practical

Quantum Brilliance will install a diamond-based quantum accelerator at the Pawsey Supercomputing Centre. Leveraging synthetic diamond technology, Quantum Brilliance is an Australian start-up supported by the Australian National University.

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TALK TO US



Chip charge: Chinese phone, car, home appliance companies join semiconductor rush

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LG Calls It Quits on Smartphones

LG Electronics Inc. 066570 - 2.52% will exit its unprofitable smartphone business after years of struggling to compete with industry leaders Apple Inc. AAPL 0.70% and Samsung Electronics Co. , as well as fast-growing Chinese rivals.

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Siemens Expands Veloce Hardware-assisted Verification System

Siemens Digital Industries has added four new products in its Veloce hardware-assisted verification system which it said offer a seamless approach to managing rapid verification of next generation system on chip (SoC) designs. The complete system comprises virtual verification platform, hardware emulation and field programmable gate array (FPGA) prototyping, which together streamline and optimize verification cycles and reduce verification costs.

The new products are:

Veloce HYCON (HYbrid CONfigurable) for virtual platform/software-enabled verification, allowing complex hybrid emulation systems for SoC designs.

Veloce Strato+, a capacity upgrade to the Veloce Strato hardware emulator, with a roadmap that scales up to 15 billion gates.

Veloce Primo for enterprise-level FPGA prototyping, an internally developed enterprise prototyping solution.

Veloce proFPGA for desktop FPGA prototyping, featuring a modular approach to capacity, to deliver scalability across a range of capacity requirements.

Satellite-based Hybrid 5G Network Takes Shape

Lockheed Martin Corp. and Northern Virginia-based Omnispace LLC will explore joint development of a satellite-based 5G network promising global coverage.

The proposed orbiting 5G network would link with consumer, corporate and government devices, offering what the partners said would be “ubiquitous communications worldwide” and “mobility, regardless of environment or location.”

The agreement announced this week includes Lockheed Martin’s space division in Littleton, Colo. Omnispace of McLean, Va., was founded by veteran satellite and telecommunications industry veterans in 2012, Omnispace is developing a “hybrid” 5G network that would link terrestrial and space-based networks.

Backed by private equity investors, Omnispace closed a \$60 million funding round in early 2021. According to the website Crunchbase.com, it has so far raised \$140 million in venture funding.

Diamond-Based Quantum Accelerator Might Make Quantum Practical

Quantum Brilliance will install a diamond-based quantum accelerator at the Pawsey Supercomputing Centre. Leveraging synthetic diamond technology, Quantum Brilliance is an Australian start-up supported by the Australian National University. It is working on room temperature quantum accelerators, which would render unnecessary the complex cooling and laser systems now in use. The current technology could be a window to market-ready solutions.

Marcus Doherty, chief scientific officer for Quantum Brilliance, told EE Times, “Pawsey and Quantum Brilliance will join forces with other Australian industry and researchers as part of Pawsey’s Quantum Pioneer Program to develop quantum applications in various application markets.”

Chip Charge: Chinese Phone, Car, Home Appliance Companies Join Semiconductor Rush

SHANGHAI, March 31 (Reuters) - Smartphone maker Xiaomi has joined a rush of Chinese tech companies venturing into the semiconductor sector, announcing on Wednesday a new chip to help smartphone cameras process images.

Xiaomi’s Surge C1 chip was developed after an earlier unsuccessful attempt at producing a smartphone processor and comes as Chinese internet giants, automakers, and even home appliance firms invest heavily in semiconductor research and development.

While all remain in the early stages, their drive dovetails with Chinese government policy to boost the domestic semiconductor sector as demand for chips soars.

LG Calls It Quits on Smartphones

LG Electronics Inc. 066570 -2.52% will exit its unprofitable smartphone business after years of struggling to compete with industry leaders Apple Inc. AAPL 0.70% and Samsung Electronics Co. , as well as fast-growing Chinese rivals.

It wasn’t an unexpected move, following years of speculation about a pullback and after Chief Executive Kwon Bong-seok declared in January that all options were under consideration regarding the mobile division’s fate.

The Seoul-based firm, following a unanimous board vote Monday, said it would halt mobile phone production and sales by July 31. LG had once been the world’s third-largest phone maker by shipments and remains the biggest U.S. vendor after Apple and Samsung.

But LG’s overall phone business has withered in the past six years or so. It has been in the red for 23 straight quarters, with the accumulated losses exceeding \$4.4 billion.