

FutureHorizons



The Global Semiconductor Industry Analysts

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Surrey University hooks up with Viavi on 6G

Viavi Solutions is supporting 6G academic and industry research worldwide through its new 6G Forward program. The program is designed to provide vital expertise, technology, and funding to promising avenues of research, which may lead to breakthroughs for the next generation of wireless technology.

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China Factories Ration Power as Heatwave Sends Demand Soaring

Chinese lithium hub Sichuan province will ration electricity supply to factories until Saturday, state media reported, as a heatwave sends power demands soaring and dries up reservoirs. Temperatures in the province -- home to nearly 84 million people -- have hovered above 40-42 degrees Celsius (104-108 degrees Fahrenheit)

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Rohde & Schwarz announces solution

Rohde & Schwarz is leading the way in implementing a full range of 5G New Radio (NR) Release 17 features in its powerful signal generation and analysis test solutions.

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TALK TO US



Micron pledges \$40 billion to expand domestic US memory manufacturing

On the same day that U.S. President Joe Biden signed the CHIPS and Science Act into law, memory chip maker Micron Technology Inc. will invest in what it claims is the largest memory electronics funding initiative in the U.S. Micron said it will spend \$40 billion through the next decade to build leading-edge memory manufacturing in multiple phases in America.

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EVENTS

[Silicon Chip Industry Seminar](#)

- September 2022- London UK

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- September 2022- London UK

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Samsung reveals plans for \$15bn chip research center

Samsung announced on Friday that it will spend roughly \$15 billion on building a new chip research complex in South Korea by 2028, as the tech giant seeks to ease restraints on semiconductor scaling. Casting light on the complex's deliverables, Samsung said the new chip facility will be built at the company's Giheung campus to foster research into new technologies.....

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Surrey University Hooks Up With Viavi On 6G

Viavi Solutions is supporting 6G academic and industry research worldwide through its new 6G Forward program.

The program is designed to provide vital expertise, technology, and funding to promising avenues of research, which may lead to breakthroughs for the next generation of wireless technology.

The Innovation Centre addresses advanced communication systems and the key challenges in the development of a 5G, 5G+ and 6G infrastructure for providing connectivity for future technologies.

Key research areas include: Antennas and signal processing; Artificial intelligence for wireless communications; Intelligent and high-performance networking and service delivery; Intelligent RAN technology and management; Mobile network security; New physical layer; Satellite communications; THz components and communications all under future Integrated communication and sensing.

China Factories Ration Power as Heatwave Sends Demand Soaring

Chinese lithium hub Sichuan province will ration electricity supply to factories until Saturday, state media reported, as a heatwave sends power demands soaring and dries up reservoirs.

Temperatures in the province -- home to nearly 84 million people -- have hovered above 40-42 degrees Celsius (104-108 degrees Fahrenheit) since last week, according to data from China's Meteorological Administration, increasing the demand for air conditioning.

The region relies on dams to generate 80% of its electricity, but rivers in the area have dried up this summer, Beijing's Water Resources Ministry said.

The province in China's southwest produces half the nation's lithium, used in batteries for electric vehicles, and its hydropower projects provide electricity to industrial hubs along the country's east coast.

But the local government has decided to prioritize residential power supply, ordering industrial users in 19 out of 21 cities in the province to suspend production until Saturday, according to a notice issued Sunday.

Rohde & Schwarz Announces Comprehensive Test Solutions For 5G NR Release 17

Rohde & Schwarz is leading the way in implementing a full range of 5G New Radio (NR) Release 17 features in its powerful signal generation and analysis test solutions.

Software options for the R&S SMW200A vector signal generator and R&S FSW signal analyzers have been upgraded to fulfil the exacting requirements of this latest 5G specification. The R&S FSVA3000 signal and spectrum analyzer and R&S SMM100A vector signal generator also handle 5G NR Release 17.

Delivering faster and more responsive experiences in mobile broadband communications, 5G NR is the global standard for a unified, more capable 5G wireless air interface. It promises significantly quicker mobile broadband experiences, extending mobile technology to connect and redefine new and emerging industries.

Micron Pledges \$40 Billion To Expand Domestic US Memory Manufacturing

On the same day that U.S. President Joe Biden signed the CHIPS and Science Act into law, memory chip maker Micron Technology Inc. will invest in what it claims is the largest memory electronics funding initiative in the U.S.

Micron said it will spend \$40 billion through the next decade to build leading-edge memory manufacturing in multiple phases in America. The funding will create 40,000 American jobs including 5,000 highly paid technical and operational roles inside Micron, the company said.

Biden signed the CHIPS and Science Act after Congress approved the bill last week. The act will provide \$52 billion in grants, credits and incentives for chip makers to build new semiconductor fabrication plants, or fabs, in the U.S. Micron pointed to the passing of the CHIPS Act as part of the motivation for the investment and that the investment will help Micron with some of the costs of construction.

Samsung Reveals Plans For \$15bn Chip Research Center To Break Semiconductor Scaling Barriers

Samsung announced on Friday that it will spend roughly \$15 billion on building a new chip research complex in South Korea by 2028, as the tech giant seeks to ease restraints on semiconductor scaling.

Casting light on the complex's deliverables, Samsung said the new chip facility will be built at the company's Giheung campus to foster research into new technologies, including novel wafer fabrication processes for memory and system semiconductors.

Upon completion, the South Korean facility, which will stretch over 109,000 square meters at Giheung, will further strengthen the tech giant's foothold in the semiconductor industry. The Giheung campus also hosted Samsung's 1992 development of the world's first 64MB DRAM, which led the company to scoop the top spot among chip manufacturers the following year.

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