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The Global Semiconductor Industry Analysts

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TSMC Raises Capital Expenditure Plan

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On the M&A Trail, Synaptics Buys DisplayLink

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TALK TO US

AI and Robotics Power Up European Battery Cell Production

Industry reports suggest that by 2050, 74% of Europe's vehicle stock will be battery powered. Given the size of the European automotive industry, how can EU companies future-proof their production lines with regard to battery manufacturing? Comprehensive concepts such as robots, artificial intelligence (AI) and automated quality control can help tackle strong competition they face from Asia.

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Verizon, IBM to Collaborate on AI, Edge Computing, and 5G

Just days after announcing a partnership with Google to leverage its cloud AI solution, Verizon was at it again, this time unveiling a collaboration with IBM to work together on AI, 5G, and edge computing development.

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ST Buys Two Companies To Add UWB And Cellular IoT To MCUS

STMicroelectronics today announced two separate deals, one to acquire ultra-wideband (UWB) technology specialist BeSpoon and the other to buy the assets of Riot Micro, which was developing cellular Internet of things (IoT) connectivity. With the acquisitions, ST aims to strengthen its wireless connectivity capabilities, especially in support of its STM32 microcontrollers and secure MCUs.

BeSpoon, based in Le Bourget du Lac, France, is a fabless semiconductor company, founded in 2010, that specializes in UWB communications technology, developed over time in partnership with CEA-Leti in Grenoble, France. At CES in Las Vegas in 2014, BeSpoon showed a smartphone concept equipped with UWB, called the SpoonPhone.

TSMC Raises Capital Expenditure Plan on Improved Outlook

Taipei – Taiwan Semiconductor Manufacturing Co. (TSMC) has increased its capital expenditure plan for this year by about $1 billion to an amount ranging from $16 billion to $17 billion on the improved expectation that demand for 5G phones and high-performance computing (HPC) products will boost sales in 2020 and for the next few years.

In the third quarter of 2020, the world's largest chipmaker by market valuation expects strong orders from customers such as Apple and MediaTek for its 5nm and 7nm products, driven by applications in 5G smartphones, HPC and IoT.

In the near future, the company that's a bellwether for the electronics industry still faces headwinds. The coronavirus pandemic will continue to disrupt consumer demand, and TSMC expects weakness in smartphone shipments compared with a year ago.

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Casting video is going to become more and more common, and Synaptics thinks it can be a key enabler of that trend by combining its own products with the technologies it just picked up through the two acquisitions.

Earlier this month, Synaptics bought a wireless IoT operation, along with the rights to some wireless IP, from Broadcom for $250 million. Synaptics will combine the acquired Wi-Fi, Bluetooth, and other wireless technology with its own SyNAP chip for IoT applications.

AI and Robotics Power Up European Battery Cell Production

Industry reports suggest that by 2050, 74% of Europe's vehicle stock will be battery powered. Given the size of the European automotive industry, how can EU companies future-proof their production lines with regard to battery manufacturing? Comprehensive concepts such as robots, artificial intelligence (AI) and automated quality control can help tackle strong competition they face from Asia.

Sustainability, climate change and energy transition all call for concepts and technologies that support developing areas such as e-mobility, a trend that is gaining traction in the European automotive industry. Approximately 14 million people are employed in and around this sector, while another 4 million jobs are closely linked to other e-mobility applications used in buses, trams, ships, mining equipment, trucks, agricultural machinery, forklifts, and many other areas.

Verizon, IBM To Collaborate On AI, Edge Computing, And 5G

Just days after announcing a partnership with Google to leverage its cloud AI solution, Verizon was at it again, this time unveiling a collaboration with IBM to work together on AI, 5G, and edge computing development.

The two tech giants will work together on solutions combining the high speed and low latency of Verizon's 5G and Multi-access Edge Compute (MEC) capabilities, IoT devices, and sensors at the edge. They will also work together and leverage IBM's expertise in AI, hybrid multi-cloud, edge computing, asset management, and connected operations.

Many industrial enterprises are nowadays seeking ways to use edge computing to accelerate access to near real-time, actionable insights into operations to improve productivity and reduce costs, according to Verizon.