

FutureHorizons



The Global Semiconductor Industry Analysts

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Siemens and Tata Power-DDL Partner on Smart Metering

Siemens Ltd and Tata Power Delhi Distribution Ltd (Tata Power-DDL) have successfully deployed smart metering technology for over 200,000 smart meters in North Delhi. The state-of-the-art EnergyIP Meter Data Management System installed and commissioned by Siemens enables timely and accurate collection of electricity meter data leading to increased visibility of the consumer network and reduction in carbon emissions.

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Rambus Completes Acquisition of PLDA

Rambus Inc. recently completed the acquisition of PLDA. With this acquisition, Rambus expands its digital controller offerings with complementary CXL 2.0, PCIe 5.0 and PCIe 6.0 controller and switch IP, and gains critical building blocks for its CXL Memory Interconnect Initiative.

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Foxconn Enters Chip Production with Macronix

Foxconn, the world's largest assembler of consumer devices such as Apple's iPhone, is entering semiconductor production as part of a plan to expand into electric vehicles. Foxconn recently announced it will acquire a 6-inch silicon wafer plant and equipment from Taiwan-based Macronix International for NT\$2.52 billion (\$90 million).

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TALK TO US



Microchip Launches SiC Power Modules for Aircraft Electrical Systems

In the race to reduce emissions in aerospace systems, designers are increasingly moving towards more efficient electronics in control systems, including those that replace pneumatics and hydraulics—everything from onboard alternators to actuators and auxiliary power units.

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UK Regulator Says Nvidia-Arm Deal Could Stifle Innovation

The U.K. competition regulator has concluded that an in-depth probe of Nvidia's proposed acquisition of Arm is warranted due to competition concerns and the potential for stifling technology innovation.

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Siemens and Tata Power-DDL Partner on Smart Metering Technologies in India

Siemens Ltd and Tata Power Delhi Distribution Ltd (Tata Power-DDL) have successfully deployed smart metering technology for over 200,000 smart meters in North Delhi. The state-of-the-art EnergyIP Meter Data Management System installed and commissioned by Siemens enables timely and accurate collection of electricity meter data leading to increased visibility of the consumer network and reduction in carbon emissions. The AMI program is one of Tata Power-DDL's key strategic initiatives for the modernization of the grid.

This implementation will help the consumers in real-time consumption monitoring and better energy usage management while also providing them outage and low Power Factor alerts. It will also enable faster outage management.

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"CXL and PCIe are critical enablers for next-generation data centers that will deliver the high-speed interconnects needed to tackle demanding workloads in AI/ML and HPC applications," said Luc Seraphin, president and CEO of Rambus. "The addition of PLDA's world-class digital IP and engineering expertise accelerates our roadmap and expands our market opportunity, and we are excited to welcome them to the team."

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For Foxconn, it's a first step toward chip production. The company plans to use the fab as part of a plan to ramp up manufacturing of high-growth products such as EVs and electronics equipment used for healthcare. Foxconn's MIH Alliance for EVs has so far attracted more than 1,200 partner companies providing hardware and software. Together, the partners plan to launch an EV kit in October, and a prototype electric bus in 2022.

Microchip Launches SiC Power Modules for Aircraft Electrical Systems

In the race to reduce emissions in aerospace systems, designers are increasingly moving towards more efficient electronics in control systems, including those that replace pneumatics and hydraulics—everything from onboard alternators to actuators and auxiliary power units.

Microchip Technology, working with European Commission consortium member Clean Sky, has developed a family of SiC-based power modules for aerospace applications intended to enable more efficient and compact power conversion and engine drive systems. The modules—designated BL1, BL2, and BL3—use a mix of 1200V silicon carbide (SiC) MOSFETs and 1600V diodes on a modified substrate designed for harsh aviation applications. The power modules are also available with Trench4Fast silicon IGBTs.

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The Competition and Markets Authority (CMA), which last month sent a summary to the government's Department for Digital, Culture, Media and Sport, has since published its report. The report warns the proposed deal would enable Nvidia to harm competitors by restricting access to Arm's intellectual property. While Nvidia has offered "behavioral remedies" to ensure rival access to Arm's technology, the CMA said the proposed remedy does not alleviate its concerns.

"We're concerned that Nvidia controlling Arm could create real problems for Nvidia's rivals by limiting their access to key technologies, and ultimately stifling innovation across a number of important and growing markets," said CMA Chief Andrea Coscelli. "This could end up with consumers missing out on new products, or prices going up."