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The Global Semiconductor Industry Analysts

FH MONDAY

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SMIC makes chip breakthrough

Semiconductor Manufacturing International Corp (SMIC, 中芯) has likely advanced its production technology by two generations, defying US sanctions intended to halt the rise of China's largest chipmaker.

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Bosch to Invest €3B in Chip Division by 2026

As chip demand continues to rise across all industry segments, Bosch has announced this week its intention to invest another €3 billion in its semiconductor division by 2026. The investment will be used to build two development centers and extra clean-room capacity at its existing sites in Dresden and Reutlingen, Germany.

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ASML Cuts 2022 Revenue Growth Outlook

Due to supply chain constraints, ASML has increased fast shipments to its customers and revised its sales growth forecast, from 20% to 10%, for fiscal year 2022. ASML is the only manufacturer of critical EUV lithography machines, and demand has surged amid the ongoing chip shortage. "Demand is still significantly higher than what we can make," ASML CEO Peter Wennink said

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TALK TO US



Cadence and Tower Semiconductor Expand Collaboration

Cadence Design Systems Inc. and Tower Semiconductor are collaborating to advance automotive and mobile IC development. Through the collaboration, the companies are developing a new, comprehensive automotive reference design flow using the Cadence Virtuoso Design Platform and Spectre Simulation Platform.....

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Qualcomm updates its wearable tech with new platforms

Qualcomm this week updated its wearable platform offerings with two new platforms designed to deliver "ultra-low power" and high performance in an effort to extend device battery life and provide better experience for end users.

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SMIC makes chip breakthrough

Semiconductor Manufacturing International Corp (SMIC, 中芯) has likely advanced its production technology by two generations, defying US sanctions intended to halt the rise of China's largest chipmaker.

The Shanghai-based manufacturer is shipping bitcoin-mining semiconductors built using 7 nanometer technology, industry watcher TechInsights wrote in a blog post on Tuesday.

That would be well ahead of SMIC's established 14 nanometer technology, a measure of fabrication complexity in which narrower transistor widths help produce faster and more efficient chips.

Bosch to Invest €3B in Chip Division by 2026

As chip demand continues to rise across all industry segments, Bosch has announced this week its intention to invest another €3 billion in its semiconductor division by 2026. The investment will be used to build two development centers and extra clean-room capacity at its existing sites in Dresden and Reutlingen, Germany.

When investments follow one another, it is not always easy to keep track.

Bosch invested €1 billion in a 300-mm wafer-manufacturing facility in Dresden, which began production in June 2021. Five months later, the German maker announced it would invest more than €400 million in expanding its wafer-manufacturing fabs in Dresden and Reutlingen and in its chip-testing operations in Penang, Malaysia.

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Due to supply chain constraints, ASML has increased fast shipments to its customers and revised its sales growth forecast, from 20% to 10%, for fiscal year 2022.

ASML is the only manufacturer of critical EUV lithography machines, and demand has surged amid the ongoing chip shortage. "Demand is still significantly higher than what we can make," ASML CEO Peter Wennink said after the company announced its quarterly results today (July 20). "We don't see any demand reduction."

For the second quarter of 2022, the Veldhoven, Netherlands-based company reported net sales of €5.4 billion, slightly ahead of its guidance, and achieved record net bookings of €8.5 billion, including €5.4 billion from 0.33 NA and 0.55 NA EUV systems, as well as strong deep ultraviolet (DUV) systems bookings.

Cadence and Tower Semiconductor Expand Collaboration to Accelerate Auto Chip Development

Cadence Design Systems Inc. and Tower Semiconductor are collaborating to advance automotive and mobile IC development. Through the collaboration, the companies are developing a new, comprehensive automotive reference design flow using the Cadence Virtuoso Design Platform and Spectre Simulation Platform to provide customers with a faster design cycle, maintaining comprehensive design verification for advanced automotive IC product development.

The unique design challenges and analysis characteristics of automotive ICs require a carefully crafted combination of technologies and methodologies in order to satisfy the demanding ISO 26262 specification. By working to combine Cadence and Tower technologies, mutual customers can meet automotive design goals and achieve a faster path to ISO 26262 certification.

Qualcomm updates its wearable tech with new platforms

Qualcomm this week updated its wearable platform offerings with two new platforms designed to deliver "ultra-low power" and high performance in an effort to extend device battery life and provide better experience for end users.

The new platforms emerge at what is proving to be an interesting and uncertain time in the market for wearable smart devices. Though many research firms seeing nothing but strong long-term growth for the market, research firm IDC last month noted that the global wearables market actually declined for the first time ever during the first quarter of 2022, with unit shipments down 3% year over year to 105.3 million units, according to data from IDC's Worldwide Quarterly Wearable Device Tracker.