

FutureHorizons



The Global Semiconductor Industry Analysts

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Qualcomm Adds Bluetooth Lossless Audio Tech to Snapdragon Sound

Qualcomm Technologies International Ltd has expanded its audio portfolio with the release of the aptX Lossless audio technology. aptX Lossless is a new capability of the proven aptX Adaptive technology and a new feature of Snapdragon Sound Technology that is designed to deliver CD quality 16-bit 44.1kHz lossless audio quality over Bluetooth wireless technology.

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Spirent and Synopsys Accelerating Silicon Development Time-to-Market

Spirent Communications plc is collaborating with Synopsys to deliver a networking system-on-chip (SoC) verification solution to bridge the gap between pre- and post-silicon verification. The Spirent Chip Design Verification Solution speeds up the entire silicon development lifecycle and delivers significant cost savings by identifying and addressing issues in the IC design phase and before manufacturing starts.

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HCL Technologies Advances Cloud Smart Innovation and Growth

HCL Technologies (HCL) has launched a dedicated HCL Cisco Ecosystem Unit focused on creating solutions to accelerate clients' digital journeys. HCL and Cisco have a long and successful 360-degree partnership that has enabled enterprises to accelerate their digital transformation journeys by helping them to invent and innovate – leveraging advanced technologies from Cisco and transformative

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TALK TO US



Fusion Processors Target AI-Enabled IoT

Alif Semiconductor has emerged from stealth with a family of scalable fusion processors integrating MPU, MCU, artificial intelligence (AI) and machine learning (ML) plus cellular connectivity and security in a single device to address the AI-enabled internet of things (IoT) market

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EVENTS

[Silicon Chip Industry Seminar](#)

-November 2021– London UK

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– September 2021– London UK

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Toshiba Launches New M4G Group of Arm Cortex-M4 MCUs

Toshiba Electronic Devices & Storage Corp. has started the mass production of 20 new devices in the M4G group for high-speed data processing as new products of the TXZ+ family advanced class manufactured in a 40nm process. These products use Arm Cortex-M4 core with FPU, running up to 200MHz, integrating a maximum of 2MB code flash and 32KB data flash memory with 100K write cycle

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Qualcomm Technologies has taken a systems level approach and optimized a number of core wireless connectivity and audio technologies, including aptX Adaptive, which work together to auto detect and scale-up and are designed to deliver CD lossless audio when a user is listening to a lossless music file and the RF conditions are suitable.

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Spirent's TestCenter platform is a networking traffic generator, providing automated, scalable and accurate Ethernet test patterns, which are a necessity for networking ASIC and SoC verification engineers. It is tightly integrated with Synopsys ZeBu® Server, a leading emulation system, enabling pre-silicon SoC validation from 1G to 800G. The integration between the traffic generator and ZeBu Server is time-synced, which allows accurate and realistic Layer 2-3 traffic generation and real-time results analysis.

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HCL's Cisco Ecosystem Unit will create leading-edge competencies, solutions and business outcome models by leveraging Cisco technologies. It will aim to ensure the success of complex transformation programs around software-defined network transformation, network-as-a-service, digital workplace, multi-cloud modernization, hyper-automation, security, optimized application experience, private 5G and telco modernization.

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Established in 2019 and with \$72 million funding already, Alif Semiconductor this week launched its Ensemble and Crescendo product families to target next generation, always-connected IoT products. The company said these products fill the market need for scalable, genuinely power efficient devices that integrate AI/ML acceleration, multi-layered security, LTE Cat-M1 and NB-IoT connectivity, GNSS positioning, and integrated memory to enable design of products that seamlessly integrate into everyday life, whether the processing is done locally or in the cloud.

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Microcontrollers in the M4G group have enhanced communication functions integrated as a serial memory interface that also supports Quad/Octal SPI, audio interface (I2S), external bus interface in addition to UART, FUART, TSPi and I2C. In addition, the devices have an in-built 3-unit DMAC and a bus matrix structure, which greatly improves communication throughput compared to Toshiba's conventional product.