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TALK TO US

MIT builds nontoxic power source

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Spirent TestCentre goes wireless

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Cisco To Invest 671 Crore In Two Years

Like many of the global technological giants, networking equipment maker Cisco has seen the potential of the booming India start-up ecosystem and is making a beeline for it.

Recently, the U.S. company announced that it is committing □671.14 crore ($100 million) over the next two years, local media outlets reported. According to the Economic Times, □268.46 crore ($40 million) of the fund will go to "early-stage and growth-stage companies," as well as for training some 250,000 students by 2020.

In addition, the company is also planning to open six new innovation labs and three centres of expertise, according to the report.

ARM, TSMC Extend Collaboration To 7nm FinFET

Building on the success of previous collaborations on 16nm and 10nm FinFET technology, ARM and TSMC announced a multi-year agreement to collaborate on a 7nm FinFET version. The new technology will include a design solution for future low-power, high-performance compute SoCs.

The new agreement expands the companies' long-standing partnership and advances leading-edge process technologies beyond mobile and into next-generation networks and data centers. Additionally, the agreement extends previous collaborations on 16nm and 10nm FinFET that have featured ARM Artisan foundation Physical IP.

Telink Enables Connected GE Lighting With BLE Technology

Telink Semiconductor has announced that its Bluetooth mesh technology is being used in connected LED light bulbs in GE Lighting's C by GE product family.

"For many, lighting is the gateway to a smart home that connects other devices including smart thermostats, security cameras and smoke alarms. While interoperability is key, in a crowded market with no clear platform winner, we wanted to give consumers the option for a stand-alone smart lighting solution," says Tom Stimac, GE Lighting's chief innovation manager.

This smart product is enabled by Telink's proprietary BLE mesh technology, which can update in real-time and reflect multiple nodes' status automatically using Telink's patented network traffic control technology. In addition, Telink mesh supports a synchronised control mechanism, which can guarantee a large number of lights to be on/off or controlled at exactly same time. The same hardware can also be used for Apple HomeKit support.

MIT Builds Nontoxic Power Source

Smartphones, electric cars and computers are all powered by batteries, most of which are made of toxic materials such as lithium. The challenges posed by using lithium batteries are proper disposal and global supplies, which are limited. Addressing this concern, researchers at MIT has developed an alternative system for generating electricity, which harnesses heat and uses no metals or toxic materials.

The new approach is based on a discovery announced in 2010 by Michael Strano, the Carbon P. Dubbs professor in Chemical Engineering at MIT, and his co-workers: A wire made from tiny cylinders of carbon known as carbon nanotubes can produce an electrical current when it is progressively heated from one end to the other, for example, by coating it with a combustible material and then lighting one end to let it burn like a fuse.

Spirent Testcentre Goes Wireless

Spirent Communications' TestCentre network tester has gone wireless with the addition of WLAN (wireless local-area network) test capabilities. The WLAN capability lets you emulate entire WLANs for parameters such as throughput, security, timing, drop and re-association, rate vs. range, and other parameters.

Available with one or two wireless LAN interface cards, the TestCentre can test 2.4GHz and 5GHz APs (access points), network controllers, gateways, and entire WLAN ecosystems. You can use it to generate traffic and to analyse traffic for the network for device under test.