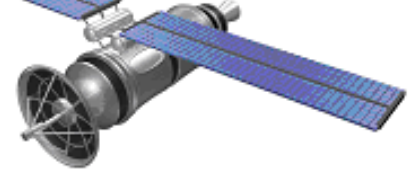


# FutureHorizons



The Global Semiconductor Industry Analysts

## FH MONDAY

14 December 2015

**Bosch sets up smart home subsidiary**

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**Tiny antennas allow wireless charging of multiple devices**

Cairo-based Si-Ware Systems (SWS) and Ossia Inc. have developed the Cota wireless charging technology that moves away from coil-based systems to simultaneously serve up to eight devices at a distance of about 9.14m using 2.4GHz multi-path radio frequency.

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**Qualcomm, Xiaomi ink licensing deal for 3G, LTE**

Qualcomm Inc. has signed up Xiaomi to a licensing deal for 3G and 4G cellular communications to which it holds essential patents. The Chinese smartphone company is thought to be one of the companies that was holding out against paying royalties while Qualcomm was under investigation by China's (NRDC) last year.

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TALK TO US



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**5G paves the way for next-gen IoT**

The path towards 5G may be nascent, but it is something is surely gaining ground. Gerhard Fettweis, Vodafone chair professor at TU Dresden, Germany, believes he has the air interface for 5G, the next generation of cellular networks.

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## **Bosch sets up smart home subsidiary**

Bosch Smart Home GmbH has been established to bring together all the smart home capabilities of its parent company Robert Bosch GmbH, which includes software and sensor-systems, with effect from the start of next year.

The subsidiary will offer products and services for connected homes covering security and heating. The company is set to debut at the Consumer Electronics Show in Las Vegas (January 6 to 9, 2016). Bosch said that some form of smart home solutions will be in 15 per cent of all the world's households by 2020, a total of 230 million homes.

The Bosch smart home system is single platform to interconnect the heating, lighting, smoke alarms, and appliances in a home and to allow them to be operated using a smartphone or a tablet computer. The core of the system is the Bosch smart home controller, a central control unit that connects the components with each other and to the internet.

## **Tiny antennas allow wireless charging of multiple devices**

Cairo-based Si-Ware Systems (SWS) and Ossia Inc. have developed the Cota wireless charging technology that moves away from coil-based systems to simultaneously serve up to eight devices at a distance of about 9.14m using 2.4GHz multi-path radio frequency.

Global revenues for wireless power receivers and transmitters will grow to more than \$1.7 billion this year, according to IHS. A 2014 report put the market at \$8.5 billion by 2018.

Like RF startup Energous, Ossia and SWS envision a charging technology that mimics WiFi, automatically connecting devices to power without the need for charging mats. The Cota system includes a scalable receiver and transmitter with between 1,000 and 8,000 tiny antennas.

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Qualcomm Inc. has signed up Xiaomi to a licensing deal for 3G and 4G cellular communications to which it holds essential patents. The Chinese smartphone company is thought to be one of the companies that was holding out against paying royalties while Qualcomm was under investigation by China's National Reform and Development Commission (NRDC) last year.

In February 2015, after an investigation lasting over a year, Qualcomm paid a \$975 million fine and provided a significant royalty rate cut (about one-third off the prior rate) for Chinese handset vendors.

## **LED plant in Telengana to provide 2,000 jobs**

Pune-based Syska LED Lights has partnered with Chinese LED light maker Advanced Optronics Devices to build a LED manufacturing plant in Telengana, a report from Live Mint stated.

A statement from Chief Minister K. Chandrashekar Rao's office said that the 200,000m<sup>2</sup> project will have an investment worth Rs.500 crore. It is also expected to generate jobs for approximately 2,000 people.

Syska LED develops LED lighting solutions for indoor, outdoor and industrial segments. On the other hand, Advanced Optronics Devices is a privately held company based in Weifang China. It manufactures LED lighting solutions for commercial, outdoor and industrial applications.

The Chinese company's subsidiary and global sales arm, Advanced Optronics Devices International, is the one responsible for setting up the plant. Its interests range from retail and fruit production to lighting solutions, Live Mint reported.

## **5G paves the way for next-gen IoT**

The path towards 5G may be nascent, but it is something is surely gaining ground. Gerhard Fettweis, Vodafone chair professor at TU Dresden, Germany, believes he has the air interface for 5G, the next generation of cellular networks. He believes that Generalised Frequency Division Multiplexing (GFDM) could enable what he calls the Tactile Internet, a future for the Internet of Things (IoT) that is attracting support from companies including Huawei, Intel, National Instruments, Vodafone and Xilinx.

All sides agree 5G will need a new air interface to meet its ambitious goals, one not backward compatible with today's 4G LTE. A half dozen major proposals have already emerged and more are expected before the 3GPP issues the first major 5G standard with its Release 15 in 2018.