

EPR

electrical & power review

THE MOST COMPREHENSIVE ANALYSIS ON ELECTRICAL & POWER

**COAL BLOCK ALLOCATION TO BE TOTAL
TRANSPARENT: COAL SECRETARY**

**THERMAL POWER IS REST
WITH HOPE**

INTERVIEW

■ ■ ■ Bratin Roy, TÜV SÜD South Asia

■ ■ ■ Nilesh Karkun, Schneider Electric India

■ ■ ■ Biswaroop Ukil, Crompton Greaves



**Global solar sector funding
zooms to \$26.5 bn**



**Transformers:
growing steady**



Infineon's influence on IMaRC 2014

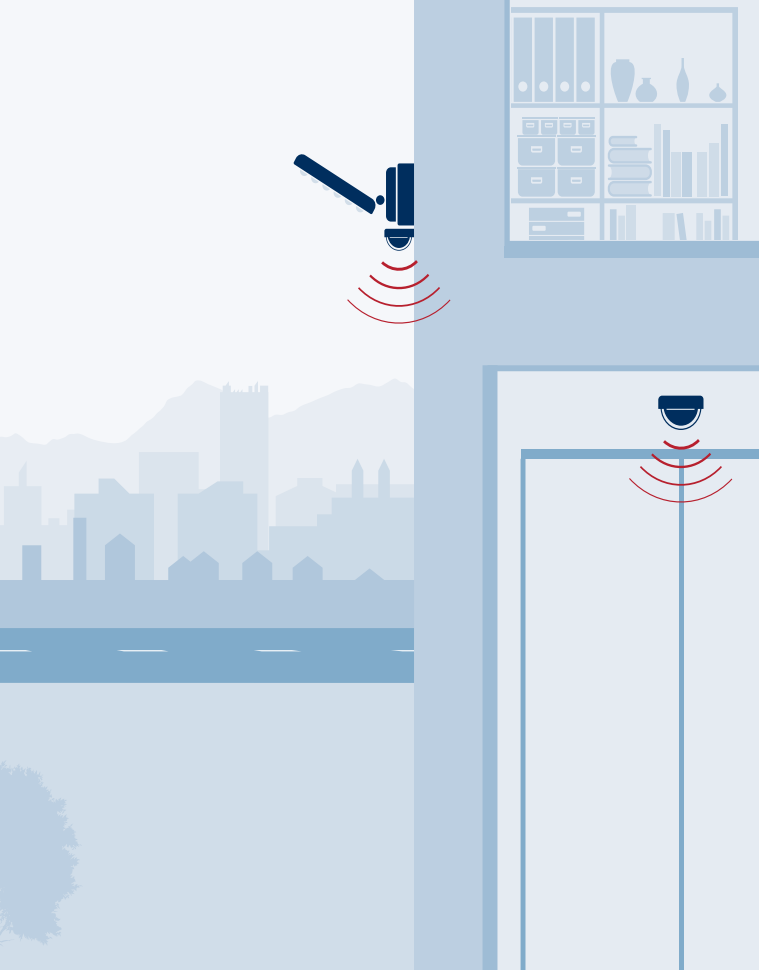
Infineon drew appreciations with the demonstration of its 24 GHz radar transceiver for industrial and automotive applications at the recently held International Microwave and RF Conference

Infineon Technologies, Germany's leading semiconductor company, aims to enhance lives while protecting the environment through its innovative semiconductor and system solutions, focussing on energy efficiency, mobility and security. But how many of us know that the company also has more than 60 years of experience in developing RF products? Not only that, Infineon is one of the market leaders in this segment with high performance, yet cost-effective products going into myriad applications.

Recently, IMaRC 2014 (International Microwave and RF Conference) concluded in Bangalore, the Silicon Valley of India at Hotel Taj Vivanta. This is a premier annual event in India for technologists involved in all aspects of microwave theory and practice. The very first IMaRC was held in New Delhi in December of 2013. The full program included technical paper presentations, workshops, tutorials and a range of social events along with a commercial exhibition.

In its debut appearance in the 2nd year of the event, Infineon Technologies participated with a booth at the exhibition area, running in parallel to the conference sessions. A complete team of technical experts and product marketing professionals from India, Singapore, Germany and USA attended the event for face-to-face dialogues with the customers at the booth.

In addition, the company's formidable presence dominated the exhibition area, as visitors from all spheres — PSUs, research labs, high-ranking government officials, professors, PhD scholars and post graduates — flocked the booth to either get a glimpse of the demos displayed, or to get to know more about Infineon solutions. It was heartening to see the curiosity and enthusiasm among the student community. They got themselves thoroughly involved in discussions with its technical experts and checking how their research in this space can be leveraged into the products.



Curious visitors getting their queries answered through the technical experts from USA and Germany



Visitors engaged in deep discussions with Infineon team from India and Singapore

The event was a three-day affair, and watching a lot of visitors coming back to the booth for further questions and clarifications was indeed a pleasant surprise.

An array of products and demos were displayed, and some of them made their maiden appearance in the country. Demo boards of Infineon's highly robust and high-performance RF LDMOS transistors came in handy for the customers to get a feel of the small form factors that can be achieved with state-of-the-art devices even for an amplifier with output power as high as 1 kW. They also got an understanding of Infineon's approach towards optimal circuit design. Infineon's RF LDMOS carries a proud heritage with satisfied customers all over the world, comprising various markets including telecom, radar and avionics.

Display of future technologies are much appreciated at such shows, and so was the case with Infineon's demonstration of 24 GHz radar transceiver for industrial and automotive applications and millimetre wave backhaul transceiver ICs. 24 GHz is an unlicensed ISM band in most parts of the world and the radar IC finds its use in numerous applications like intruder alarms, street lighting, door openers, tank level measurements and automotive short range radar for blind spot detection.

The mm-wave ICs include single chip transceivers for 60, 70 and 80GHz bands (V- and E-bands). With every growing demand for video and data services with the onslaught of LTE, there is high demand on the capacity of base stations. The solution is high-speed wireless backhaul connectivity, which can be achieved only at aforementioned bands due to the abundant bandwidth availability which can offer more than 1 GBPS wireless data rate.

Infineon had set out to generate awareness and position itself as a complete provider of Microwave and RF solutions. But looking at the audience reaction and feeling their pulse, it felt that the company has achieved a lot more. ⚡

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