News

Tokyo Tech, Sony, JRC and KDDI Labs Jointly Develop a 40 GHz, 60 GHz Wave-based Wireless Network

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Photographs of a 60 GHz 6.1 Gbps wireless module (left) and of experimental setup for wireless transfer of files to a smartphone (right)

Tokyo Institute of Technology (Tokyo Tech), Sony Corporation (Sony), Japan Radio Co. Ltd (JRC) and KDDI R&D Laboratories Inc. (KDDI Labs) today announced they have jointly developed and successfully implemented a 40 GHz and 60 GHz wave-based high-throughput wireless access network for large-scale data content distribution.

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To resolve the above problems, Tokyo Tech, Sony, JRC and KDDI Labs jointly developed a new wireless access network that combined 40 GHz operation for outdoor networks with 60 GHz operation for mobiles to enable large data size content delivery on the gigabyte scale.

This system provides a way to introduce a high-throughput communication service to next-generation networks using millimeter wave (mmWave)-based wireless systems. The system also enables efficient use of the mmWave communication band, which is much less crowded than the wavebands below 6 GHz.

The development partners will demonstrate their achievements through open experiments at the Mobile Communication Workshop sponsored by The Institute of Electronics, Information and Communication Engineers (IEICE), held at Tokyo Tech on March 2-4, 2016.

This development was conducted as a part of the "R&D for Expansion of Radio Wave

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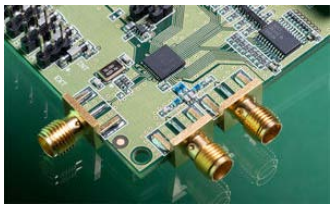

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