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Fujitsu researchers achieve 56Gbps wireless speed

Dylan Bushell-Embling | February 04, 2016 | telecomasia.net



Researchers from Fujitsu and Tokyo Institute of Technology have developed a CMOS wireless transceiver chip capable of transmission speeds of a record 56Gbps.

The chip can process high speeds across a range of millimeter-wave frequencies between 72-GHz and 100-GHz.

According to the researchers, the technology could potentially serve as a replacement for fiber backhaul for base stations in areas where it is difficult to install the cables, such as dense urban areas or places surrounded by mountains or rivers.

Because there are few competing wireless applications using the millimeter waveband, interference is not likely to be a significant issue.

The technology splits data signals into two, each converted into different millimeter-wave frequency ranges, and then recombines them at the source.

Tokyo Institute of Technology has also developed an amplifier to send and receive as radio waves signals converted to the millimeter-waveband. Fujitsu Laboratories mainly handled modularization technologies.

About the author

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