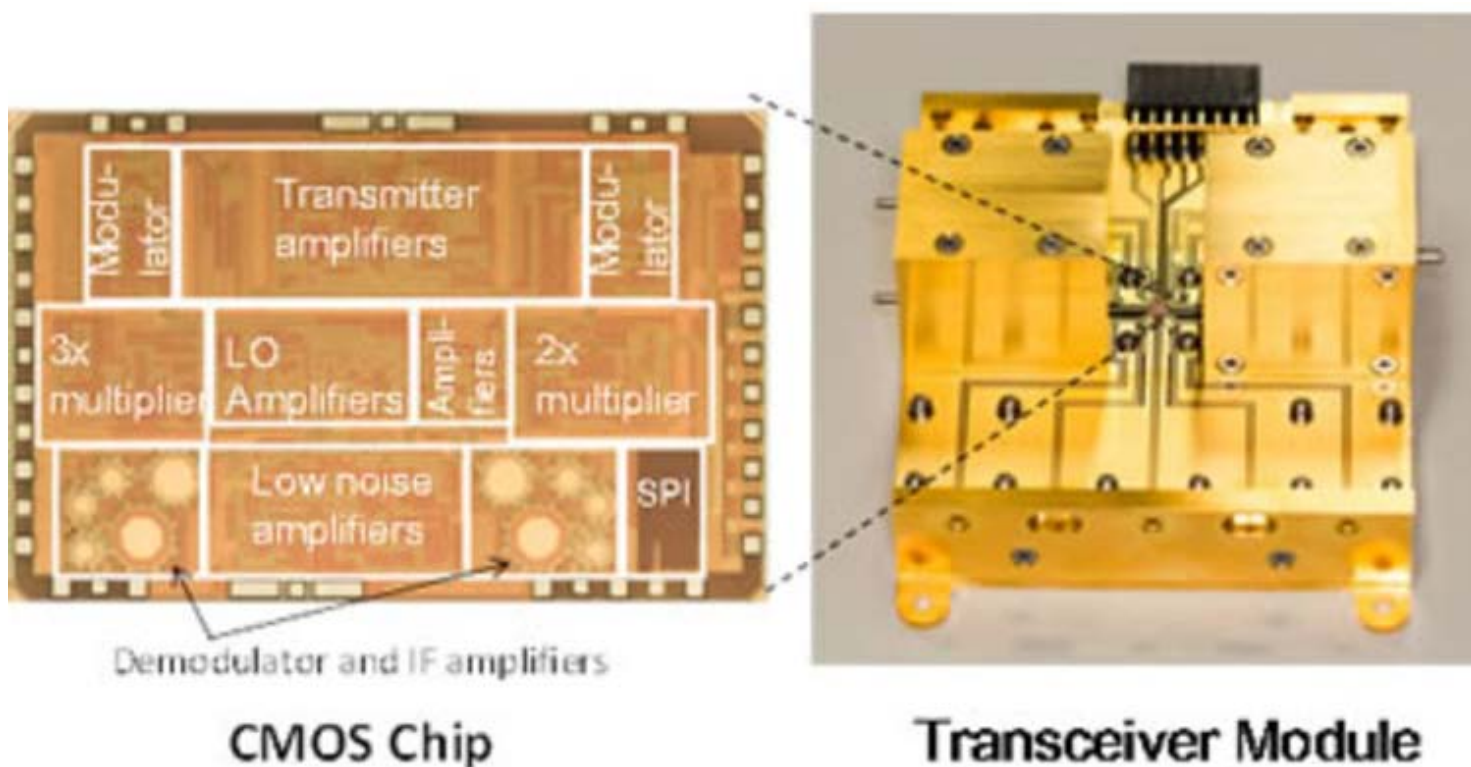


Tokyo Institute of Technology and Fujitsu Achieve Wireless Transmission Speeds of 56 Gbps, World's Fastest



Posted on February 6th, 2016 in [Telecom and ICT](#) by Press Release

Tokyo and Kawasaki, Japan, February 01, 2016 - Tokyo Institute of Technology and Fujitsu Laboratories Ltd. today announced that, in an effort to further enlarge the capacity of wireless equipment, they have developed a CMOS wireless transceiver chip that can process signals at high speeds with little loss across a broad range of frequencies, from 72 to 100 gigahertz (GHz). They also developed technology to modularize it. With these developments, they succeeded in achieving wireless transmission speeds of 56 Gigabits per second (Gbps), the world's fastest.

In recent years, to cope with the large increase in data traffic resulting from the widespread use of smartphones and other devices, networks that link base stations use optical fiber. One issue with this approach, however, is that it is difficult to expand service in areas where it is difficult to install a network of optical fiber cables, such as in urban areas or areas surrounded by rivers or mountains. To deal with this issue, Tokyo Institute of Technology and Fujitsu Laboratories have now developed high-speed wireless transceiver technologies that use the millimeter-waveband (30-300 GHz), where there are few competing wireless applications, and which are capable of large-capacity communications.

This technology makes it possible to have high-capacity wireless communications equipment that can be installed outdoors in applications where fiber-optic networks would be difficult to lay.

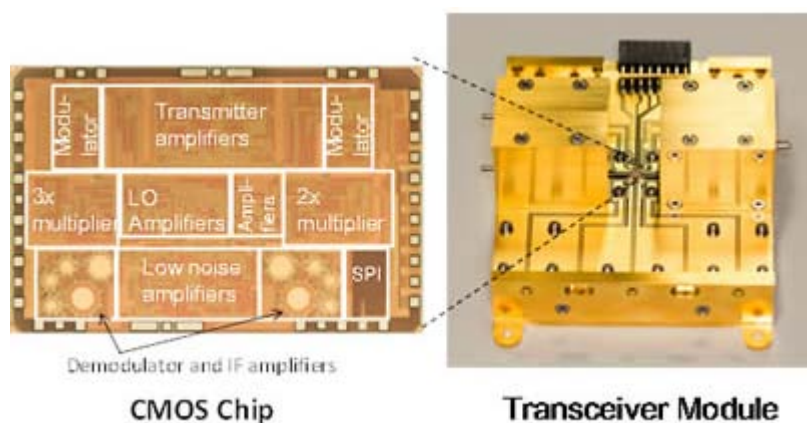


Fig.1 Transceiver CMOS chip and module.

Please visit <http://www.fujitsu.com/global/about/resources/news/press-releases/2016/0201-02.html> for more information about this technology.

Source and Photo: Fujitsu

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Contact information: Email: adalidda@gmail.com Skype: adalidda WhatsApp: +85577778919

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