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NTT develops high-speed IC supporting wireless transmission of 100 gbps in a 300 GHz band

The research was supported in part by the research and development program on multi-tens gigabit wireless communication technology at subterahertz frequencies of Ministry of Internal Affairs and Communications, Japan.

[Devdiscourse News Desk](#) | Updated: 11-06-2018 20:06 IST | Created: 11-06-2018 19:56 IST



NTT and Tokyo Institute of Technology have developed a high-speed IC supporting wireless transmission of 100 gbps in a 300 GHz band. (Image Credit: Twitter)

Japanese telecommunications company Nippon Telegraph and Telephone Corporation (NTT) and Tokyo Institute of Technology have mutually developed an ultra high-speed IC for wireless front-end that operates on a terahertz frequency band, and in the 300 GHz band they have succeeded in developing the world's fastest 100 gigabits per second wireless transmission data rate.

NTT told in a press statement, "In this research, we implemented a mixer circuit that applied a unique

proprietary high isolation design technology with an Indium phosphide high electron mobility transistor (InP-HEMT). This enlarged the transmission bandwidth, which is a problem in the conventional 300 GHz band wireless front end. It also improved the signal-to-noise ratio (SNR). In addition, using this we realized a 300 GHz band wireless front-end module, and we achieved wireless transmission of 100 Gbps (gigabits

per second)."

The details of this technology will be disclosed at the 2018 IEEE MTT-S International Microwave Symposium which is being held in Philadelphia in the United States from June 10 to 15.

The research is expected to use multiple carriers or spatial multiplexing technology such as MIMO and OAM in the near future, together with the present outcomes and with this combination, the researchers expect to attain an ultra high-speed IC technology that enables high-capacity wireless transmission of over 400 Gbps.

It is expected to be an ultra high-speed IC technology that enables high-capacity wireless transmission of 400 gigabits per second. This is about 400 times the current LTE and Wi-Fi, and 40 times 5G, the next-generation mobile communication technology.

The research was supported in part by the research and development program on multi-tens gigabit wireless communication technology at subterahertz frequencies of Ministry of Internal Affairs and Communications, Japan.

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Comcast Annual Meeting Yields Questions on Net

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A shareholder proposal to require Comcast to disclose its spending on lobbying activities and trade association was voted down during the meeting.

Reuters | United States | Updated: 11-06-2018 22:59 IST | Created: 11-06-2018 22:59 IST



The meeting held at Comcast's Philadelphia headquarters lasted less than a than 30 minutes. (Image Credit: Twitter)

other key [21st Century Fox](#) assets was not raised by shareholders during the company's annual meeting. The meeting held at Comcast's Philadelphia headquarters lasted less than a than 30 minutes.

A shareholder proposal to require [Comcast](#) to disclose its spending on lobbying activities and trade association was voted down during the meeting.

At the start of the session, Roberts talked up "a fantastic year" in 2017 for the company. [NBC Universal](#) delivered double-digit profit growth for the fifth consecutive year. The Universal film division had its most

Comcast shareholders took the opportunity Monday morning to press chairman-CEO Brian Roberts on the issue of [net neutrality](#) rules ending, the availability of weather data, and what one participant characterized as the problem of Seth Meyers' "borderline treasonous" commentary on President Donald Trump.

But Comcast's pending USD 31 billion bid for Sky and the possibility that it might spend upwards of USD 60 billion in cash to battle Disney for ownership of



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All treasury operations in Haryana have become online under an integrated financial management system (IFMS) implemented by the state government.

PTI | India | Updated: 11-06-2018 22:41 IST | Created: 11-06-2018 22:41 IST



Salaries were paid to employees on time and there was no delay whatsoever on account of technical issues in the computers in the treasury. (Image Credit: Wikimedia)

payments of Rs 3.43 lakh crore have been done through electronic mode, he said.

Salaries were paid to employees on time and there was no delay whatsoever on account of technical issues in the computers in the treasury, he said. He said the state was in the process of making online systems more robust.

There was no delay in making payments of salary to government employees, he said. As on date salary of May 2018 amounting to Rs 1269.56 crore had been released to 2.64 lakh employees, he said.

All treasury operations in [Haryana](#) have become online under an integrated financial management system (IFMS) implemented by the state government.

Stating this here today, a spokesman of the finance department said all types of state receipts and payments were being done through 'e-gras' and 'e-billing' under IFMS.

Till date 2.28 crore receipt transactions involving an amount Rs 1.95 lakh crore and 91.02 lakh payment transactions involving



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The image shows the Devdiscourse logo, which consists of a colorful circular graphic followed by the text "Devdiscourse" and "Discourse on Development" below it. Below the logo is a "GET IT ON Google play" badge. To the right is a smartphone displaying the Devdiscourse app interface. The app shows a navigation bar with "FOR YOU", "ECONOMY", "HEALTH", and "TRA". A "FRESH UPDATE" banner is visible above a news article titled "Turkey exports spring water to 110 countries".

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- Very good
- Good
- Not so good
- Poor
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