

Hughes and Reliance Jio Partnership Coverage Report

Satellites to Take Reliance Jio's 4G to Remote Corners with Backhaul Network

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New Delhi: Reliance Jio is planning to use satellites to connect to the rural and remote parts of India through its 4G LTE-based voice and data service. It is deploying a first-of-its-kind satellite backhaul-based network, using capacity from Indian Space Research Organisation (ISRO), and technology from Hughes Communications (HCL).

The Mukesh Ambani-led 4G telco is connecting more than 400 LTE sites, which are beyond the reach of terrestrial backhaul services, through this satellite backhaul-based network. The network is under different phases of deployment. Jio has awarded a contract worth over \$10 million to Hughes Communications (HCL) to set up the satellite backhaul for the 4G network in these areas.

In India, most telcos, including Jio, use microwave largely to connect towers since laying fibre is tough due to high deployment costs and right of way (RoW) issues. In rural and remote parts, especially hilly areas and islands, using the microwave is expensive, albeit for 2G and 3G services. Industry watchers said, adding that BSNL has the most satellite backhaul network today for 2G and 3G. "On 4G though, Jio is the innovator by far on satellite backhauling... they have taken a bulk capacity of two satellites of its own, and is the first in the industry to do this," Shivaji Chatterjee, SVP & Head, Enterprise Business, Hughes Communications India, told ET.

Jio, in partnership with Hughes, is setting up two earth stations in Mumbai and Nagpur, and will set up two mini hubs in Leh and Port Blair for test satellite backhaul based services that will provide connectivity in areas, especially in the North East, Arunachal Pradesh, Uttarakhand, Jammu and Kashmir, Uttaranchal, Assam and Nicobar, and Lakshadweep. The focus may be on remote hilly and island areas, but also a more areas in the mainland in Maharashtra, Orissa, Chhattisgarh, Karnataka, Himachal Pradesh," Chatterjee explained.

Analysts said that satcom can't match microwave, but still provides more than enough capacity to bandwidth, whereas fibre can provide speeds between Mbps and 30 Mbps.

Chatterjee said that the satcom platform being used by Jio offers certain kind of compression, acceleration and very low latency.

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The Economic Times



Jio may use Satellites for 4G Services in Remote Areas

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New Delhi: Reliance Jio plans to use satellites to connect rural and remote areas in the country through its 4G LTE-based voice and data services. It is likely to deploy a first-of-its-kind satellite backhaul-based network, using capacity from the Indian Space Research Organisation (ISRO), and technology from Hughes Communications (HCL).

The Mukesh Ambani-led 4G telco has been connecting more than 400 LTE sites which are beyond the reach of terrestrial backhaul services through this satellite backhaul-based network, which is under different phases of deployment. Jio has awarded a contract worth over \$10 million to HCL to set up the satellite backhaul for the 4G network in these areas.

In India, most telcos, including Jio, use microwave to connect towers since laying fibre is tough due to high deployment costs and right of way issues. In rural and remote parts, especially hilly areas and islands, using microwave is even more challenging due to height, a difficult terrain and huge investments involved, which is where the satellite-based network can fit in. Jio group president Jyotindra Thacker said the telco is using Hughes' Jupiter system. It is a first-of-its-kind satellite-based network that can fit in. Jio group president Jyotindra Thacker said the telco is using Hughes' Jupiter system. It is a first-of-its-kind satellite-based network that can fit in. Jio group president Jyotindra Thacker said the telco is using Hughes' Jupiter system. It is a first-of-its-kind satellite-based network that can fit in.

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The Economic Times

Jio to use Hughes satellite to provide 4G in remote areas

Reliance Jio will use Hughes satellite services for providing 4G services in rural and remote area. The Mukesh Ambani-led firm will connect more than 400 sites in remote and rural locations for the services, a Hughes official said. "After an extensive evaluation of the satellite technology, we felt that the Hughes Jupiter System with its high-throughput terminals and future-proof multiservice capabilities, provided the ideal performance and

Business Standard
Jyotindra Thacker, group president

Jio Plans to Use Satellites for 4G Services in Remote Areas

Likely to deploy satellite backhaul-based network, using Isro capacity and tech from Hughes to cover rural India

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Jio to use Hughes satellite tech to provide 4G services in remote areas

PRESS TRUST OF INDIA
New Delhi, September 11

RELiance JIO has inked over \$10-million deal with satellite solutions provider Hughes Jupiter System for providing 4G services in rural and remote areas.

The Mukesh Ambani-led company will use the technology to connect more than 400 sites with bandwidth in the range of 30-50 megabit per second in remote and rural locations for the services, a Hughes official said. "After an extensive evaluation of the satellite technology on the market, we felt strongly that the Hughes Jupiter System, with its high-throughput terminals and future-proof multiservice capabilities, provided the ideal performance and efficiency for supporting connectivity to our 4G/LTE sites," Jyotindra Thacker, Group president, Reliance Jio, said.

Hughes Communications president Partho Banerjee said satellite is the ideal technology for extending 4G service to remote areas that Reliance Jio has plans to go extremely rural in hilly, island and forest area.

JioPhone grabs 80% market share in sub-₹1,500 segment

Reliance Retail on Tuesday claimed that JioPhones have 80% market share in sub-₹1,500 mobile phone segment.

"Out of every 10 phones sold in the sub-₹1,500 price-range, 8 are JioPhones," Reliance Retail said in a statement.

It added that the number of voice commands used on a JioPhone surpasses that on a smartphone by five times.

The Financial Express

Print:

1. The Economic Times: [Satellites to take Reliance Jio's 4G to remote corners with backhaul network](#)
2. The Economic Times: [Jio plans to use satellites for 4G services in remote areas](#)
3. The Economic Times: [Jio may use satellite for 4G services in remote areas](#)
4. The Financial Express: [Jio to use Hughes satellite tech to provide AG services in remote areas](#)
5. Business Standard (National): [Jio to use Hughes satellite to provide 4G in remote areas](#)

Online:

6. PTI: [Jio to use Hughes satellite tech to provide 4G services in remote, rural areas](#)
7. PTI: [Reliance Jio to use Hughes satellite services to provide 4G services in remote, rural areas](#)
8. The Economic Times: [Jio plans to use satellites for 4G services in remote areas](#)
9. Hindustan Times: [Reliance Jio to use Hughes satellite to provide 4G services in rural areas](#)
10. The Financial Express: [Reliance Jio to use Hughes satellite services to provide 4G services in remote, rural areas](#)
11. The Hindu Business Line: [Jio to use Hughes satellite to provide 4G services in remote, rural areas](#)
12. Mint: [Reliance Jio to use Hughes satellite to provide 4G services in rural areas](#)
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27. Firstpost: [Reliance Jio will now use Hughes satellite to provide 4G services in remote, rural areas](#)
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Based on Press Release:

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