Fujitsu unveils world's highest capacity E-band radio for the North American market

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Fujitsu, a leading provider of business, information technology, and communications solutions, today announced the BroadOne GX4000 E-Band Solution for the North American market. Operating in the 70/80 GHz or E-band, which allows access to a wider radio frequency spectrum, the BroadOne GX4000 Series is the only product of its kind using patented Impulse Radio Technology to achieve 3 Gbps transmission rates, and ultra-low latency. With its compact form factor and easy installation, the GX4000 is ideally suited for applications requiring ultra-high capacity, short spans, where fiber is not available.

Radio access networks are quickly evolving toward LTE-Advanced, requiring much higher capacity in the backhaul and fronthaul networks. The GX4000 offers an ideal way to deliver multi-Gigabit transport capacity in current and future networks, and can be used in the following modes:

Gigabit Ethernet transport, typically applied for backhauling mobile/fixed networks: An E-band link is an ideal complement to wired backhaul technology, as it provides enough transmission capacity to support radically increased data traffic demands within a short timeframe.

CPRI (Common Public Radio Interface) transport, for fronthaul in mobile networks: The expansion of LTE and LTE-Advanced introduces the distributed radio access network architecture, or Cloud-RAN. The new challenge for mobile network operators will be fronthaul, i.e.,

securing many connections between a centralized-baseband unit (BBU) and remote radio head (RRH) in the most reliable, cost efficient method. The GX4000 provides an industry-leading solution to address the fronthaul challenge, while at the same time reducing OPEX, with a flexible, easy to deploy solution.

Portable networks for disaster recovery and low-latency transport: Wireless transport solutions are extremely important if a communications network is heavily damaged and infrastructure must be quickly restored. The GX4000 is an ideal solution for getting emergency data traffic back up and running in a short amount of time.

"Fujitsu's GX4000 E-band radio is one of the first platforms in the industry to provide native CPRI interfaces, which will enable operators to support BBU pooling without the need to deploy fiber in every sector, thereby reducing costs and improving time to market," said Emmy Johnson, Founder and Principal Analyst, Sky Light Research.

"As one of the world's leading microwave providers, Fujitsu is pleased to introduce our patented Impulse Radio Technology to the North American market," said Tetsuya Takase, Head of the Wireless Business Unit. "This breakthrough technology provides real advantages over traditional carrier-based transmission, making the BroadOne GX4000 platform a perfect fit for delivering ultra-high capacity communications in a variety of settings, including hospitals, campuses, and residential areas, ultimately helping to improve the customer experience."

Provided by Fujitsu