BBnet Uses JET Beamforming PtMP to Deliver Fast Broadband

JET cuts through heavy interference

Customer: BBnet
BBnet is a service provider in Ireland that serves a broad range of customers, from multinational enterprises to residential users in both urban and predominantly rural locations across counties Clare and Limerick.

The Need for High-Speed Broadband
BBnet has been using RADWIN 5000 Point-to-Multipoint radios since 2011 to provide broadband in rural areas where larger providers would not deliver broadband services. In recent years BBnet had expanded its services into urban markets.

With customers’ bandwidth demands ever on the rise, BBnet sought a solution that would allow it to provide the high bandwidth required to support fast internet browsing and data-intensive applications such as Netflix, gaming, streaming video and music. The chosen solution had to operate in the challenging 5 GHz license-exempt spectrum which was extremely congested.

JET Fights Interference
In 2016 BBnet tested RADWIN’s JET and found that it delivered the high-speed broadband required to support data-intensive applications.

JET’s Bi-Beam Beamforming technology overcomes the core channel interference in the 5 GHz band to deliver high-speed consistent connectivity to customers.

“JET PtMP radios allow us to deliver fiber-like speeds to customers in rural Ireland. Fiber is not always the answer in rural areas because it’s costly to deploy and topography can be a constraint.”

Barry O’Halloran, Managing Director, BBnet

JET Service Packages
BBnet deployed RADWIN’s JET base stations and subscriber units and today offers two types of service packages:

- **BBnet Jet** - 45 Mbps download speeds and 10 Mbps upload speeds.
- **BBnet Life** - 20 Mbps download speeds and 5 Mbps upload speeds.

With JET, BBnet enables enterprise customers to take advantage of dedicated, uncontended internet with business-class Service Level Agreements (SLA).

Residential users enjoy unprecedented internet browsing speeds and high bandwidth for data-intensive applications such as Netflix and gaming.
BBnet Benefits

RADWIN’s JET Bi-Beam Beamforming solutions deliver the following benefits:

» **Fiber-like Speeds** - JET delivers high-speed broadband of up to 45 Mbps to support data-intensive applications.

» **Slice through Interference** - There is major interference in the 5 GHz license-exempt spectrum in BBnet’s service area, but JET’s Beamforming antenna overcomes interference to deliver consistent high throughput.

» **Guaranteed SLAs** - With JET, BBnet can provide business-class Service Level Agreements to enterprise customers that require fast speeds, low latency and a high level of service.

» **Operation in Harsh Environment** - JET is exposed to salt coming from the Atlantic Ocean, but the equipment’s IP 67 marine-grade housing ensures the durability and longevity of the radios.

» **Operation in Non-Line-of-Sight** - JET operates in NLOS scenarios where line-of-sight is obstructed by trees and hills.

» **Swift and Simple Installation** - enabling fast network roll-out.

The Way Forward

BBnet has grown over the past decade to the point where it now serves thousands of customers. In the last two years BBnet has enjoyed a 40% per annum growth and is continuously investing in new technologies.

“Our investment in RADWIN JET has exceeded our expectations and our ROI has been phenomenal. RADWIN’s JET Beamforming technology has demonstrated the capability to operate in extreme interference and this has allowed us to add many customers in noisy environments that previously we couldn’t have served.”

Barry O’Halloran, Managing Director, BBnet

About RADWIN

RADWIN is a leading provider of wireless broadband solutions that incorporate advanced technologies to deliver optimal performance in the toughest conditions. Deployed in over 170 countries, RADWIN’s solutions power a range of applications from last mile connectivity to backhaul.

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