CASE STUDY DATA CENTRES

Signal Integrity for the Cloud

Multiple Locations, ON | Industry: Data Centres

Description

Data centres are the backbone of the global cloud, requiring 100% operational uptime and high-level security. To support these sensitive environments, Linkwave deployed a Hybrid fiber/coax DAS to overcome the extreme RF shielding posed by heavy structural materials and potential signal interference. This infrastructure provides seamless LTE and 5G connectivity for Bell, Telus, and Rogers, ensuring that onsite technicians and security teams remain connected within even the most isolated server halls.

Beyond Commercial Cellular, the solution integrates a dedicated Operations Radio network for real-time site coordination and safety. By delivering high-capacity, low-latency wireless coverage, Linkwave ensures that communication reliability across the entire facility.

Project Specifications

Type	Details
Solution	Commercial Cellular and Radio
System Type	Indoor Coverage (DAS)
Industry	Data Centres
Technology	Cellular • LTE • 5G Operations Radio
Operators/Carriers	• Bell, Telus, Rogers,
Solution Architecture	Hybrid Fiber/Coax DAS

About Data Centres

- These data centres be responsible for powering cloud and artificial intelligence tools
- These data centres utilize Canada's cold winters for cooling and only require water cooling when temperatures exceed 29 degrees Celsius
- Generators aren't used as a backup power, and these buildings utilize renewable Biofuel