



UTAH TRANSIT AUTHORITY Case Study

FiberinMotion® Train-to-Ground Solution

Fast Wi-Fi on FrontRunner Trains

FiberinMotion® train-to-ground solution provides up to 120Mbps onboard trains

About the Utah Transit Authority

The Utah Transit Authority (UTA) in the U.S. operates 16 train stations - from Ogden through Salt Lake City to Provo - along an 89-mile (143 km) corridor.

Customer requirement: the need for speed

Since 2008, UTA had been using a trackside solution to deliver Wi-Fi to passengers onboard its FrontRunner trains.

In recent years the Wi-Fi network became heavily strained as smartphone and tablet usage exploded and the number of riders trying to connect to the Wi-Fi service grew exponentially.

UTA's legacy system couldn't deliver more than 1-2Mbps capacity and passengers were unhappy with the slow and unreliable connection.

Solution: hybrid trackside & cellular network

To significantly upgrade Wi-Fi service onboard its trains and provide passengers with an enhanced travel experience, the Utah Transit Authority turned to the GBS Group who recommended deploying a hybrid solution using:

- » Cellular-based system - connectivity delivered to the train via commercial cellular networks.
- » RADWIN's FiberinMotion® train-to-ground solution - utilizing a dedicated trackside network, boosting capacity along track segments where cellular coverage was sluggish and unreliable.



FiberinMotion® highlights

- » Highest net throughput in motion – up to 750Mbps per train
- » Supporting train speeds of up to 350 km/h (220 mph)
- » Incorporating field-proven air interface and cutting-edge technologies
- » Multi-service platform supporting multiple applications including high-speed Wi-Fi, real-time CCTV, PIS and signaling
- » Superior performance in tunnels and NLOS
- » Railway environment certified



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Maximizing throughput onboard the trains

Today, passengers onboard UTA's FrontRunner trains enjoy an uninterrupted Wi-Fi connection of up to 120Mbps.

The hybrid solution assures connectivity throughout the route while maximizing delivered throughput by automatically switching from cellular Wi-Fi to RADWIN's trackside radios, and vice versa.

“With RADWIN's FiberinMotion® our passengers benefit from an enhanced travel experience.”

Kyle Brimley, Manager of Communications and Deployment
Utah Transit Authority

About RADWIN

RADWIN is the leading provider of the FiberinMotion® train-to-ground communications solution which delivers broadband-on-the move and fulfills the needs of rail and metro authorities. FiberinMotion® provides up to 750Mbps throughput and superior performance in non-line-of-sight and tunnel topologies. RADWIN's solutions are today deployed in over 170 countries.

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FiberinMotion® base stations deployed along the UTA tracks