



MOSCOW METRO Case Study

FiberinMotion® Train-to-Ground Solution

Moscow Metro delivers fast Wi-Fi to millions of passengers

RADWIN's FiberinMotion® train-to-ground solution provides up to 500Mbps onboard its trains

About Moscow Metro

The Moscow Metro is the 5th busiest underground railway system in the world, with an average daily ridership of over 9 million.

The metro operates 14 lines and 245 stations over a 365 km (227-mile) route.

Need for ubiquitous broadband

To enhance the passenger journey, the Moscow Metro sought to provide free high-speed Wi-Fi and monetized content to travelers onboard its trains.

Solution: FiberinMotion®

RADWIN's FiberinMotion® train-to-ground communications solution was chosen by MaximaTelecom, the project's system integrator, after an extensive evaluation of Wi-Fi, 3G and LTE technology-based solutions.

“ We chose RADWIN's solution because it delivers the optimal combination of high capacity and extensive coverage, significantly reducing the amount of infrastructure required in the tunnels. ”

Boris Volpe, CEO | MaximaTelecom





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World's largest Wi-Fi public transportation network

Moscow Metro has built the world's largest Wi-Fi network with FiberinMotion®. Since 2016, RADWIN's equipment has been deployed onboard 800 trains to deliver Wi-Fi at speeds of up to 500Mbps.

FiberinMotion® is also used for backhauling small cells which are installed on the trains to power voice and data connectivity.

FiberinMotion® supports over 70 Terrabytes daily download speeds and reaches speeds of 30Gbps total network throughput.

FiberinMotion® deployments to date:

- » Over 1,000 transportation base stations
- » Over 1,600 transportation mobile units

“Passengers onboard Moscow Metro are receiving fast, continuous Wi-Fi service thanks to RADWIN's FiberinMotion®.”

Mikhail Minkovskiy, CTO | MaximaTelecom

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



FiberinMotion® base stations and mobile units deployed along the tracks and on the trains

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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