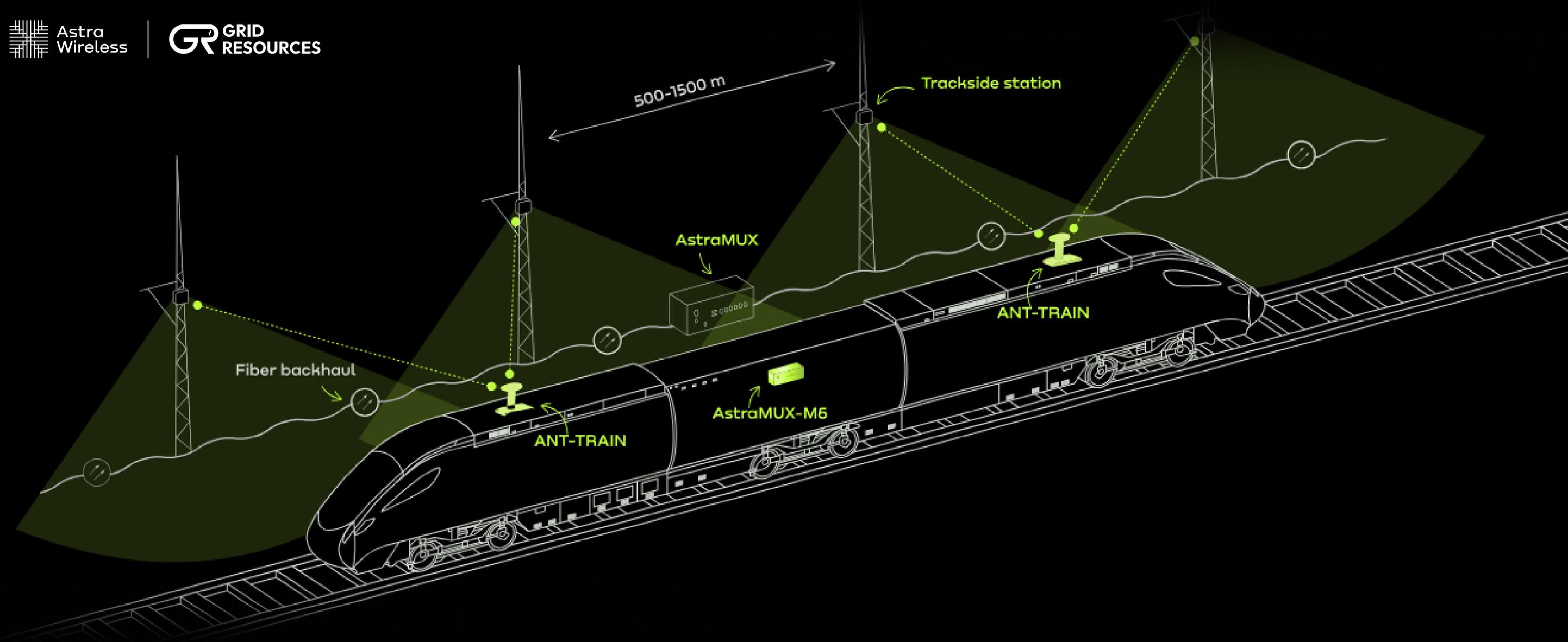# Multi-Channel Connectivity to reach 1 Gbps throughput

Each train establishes 10+ parallel communication channels, ensuring high-speed, fail-safe, and resilient connectivity throughout the journey

Astra Wireless | GRID RESOURCES

Precision-Engineered for High-Speed Rail

We design specialized antennas and radio systems to counteract challenges at high speeds, effectively managing Doppler effects, roaming complexities, and signal reflections

500-1500 m

Trackside station

AstraMUX

ANT-TRAIN

Fiber backhaul

ANT-TRAIN

AstraMUX-M6

Intelligent Network Oversight & Optimization

AstraMUX switch continuously monitors the entire network, ensuring intelligent traffic balancing, proactive issue detection, and real-time resolution

End-to-End Vendor Support

Astrawireless provides comprehensive network design and optimization, ensuring seamless integration of components, efficient resource utilization, and cost-effective scalability