

DISTRIBUTED POWER 450 MHz SYSTEM

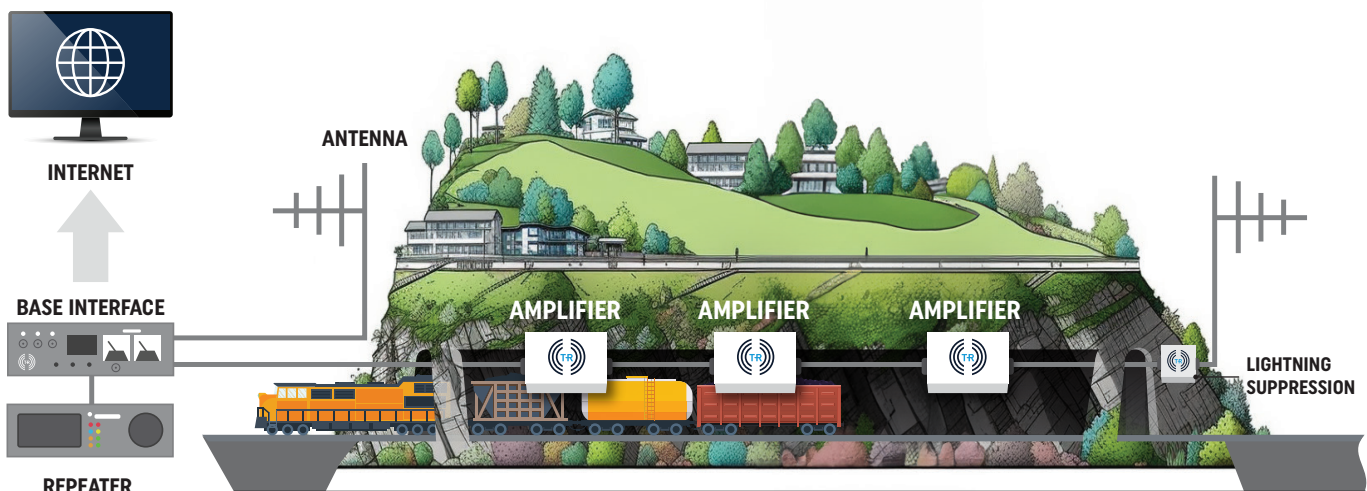
Distributed Power Tunnel Systems and EOT/HOT



RAILROAD

Features and Benefits

- Continuous data communication—regardless of length
- Rugged components designed to withstand the harsh rail environment
- Extends radio signals for Wabtec LOCOTROL® Distributed Power and UHF EOT/HOT
- Remote gain adjustment via the Head End and automatic system leveling
- Requires only one repeater per system
- Built-in diagnostic & monitoring system for local and remote use
- TRCentral prepared for alarming and mapping capabilities



Overview of DP 450E Tunnel Link™ Communication System

System components: Repeater, Base Interface Unit, 450E/450E-HP UHF Amplifier(s), Radiating coaxial cable, and Surface Antennas.

Specifications: 450 MHz Amplifier, TRL-450E

Electrical specifications (typical, TRL-450E)

| | |
|--|----------------|
| Bandpass, UL, DL | 445 – 470 MHz |
| Gain, DP, UL, DL..... | 28 dB, max |
| Output power at 1dB compression (P1dB), DL..... | +10 dB |
| Output third-order intercept point (OIP3), DL..... | +22 dB |
| Impedance..... | 50 Ω |
| DC Power | +11 to +36 VDC |
| Connectors, RF | N-Type |
| Amplifier Spacing..... | 350m / 1150' |

Monitoring and Diagnostic (typical)

| | |
|----------------|---|
| Server..... | Linux (CentOS/Red Hat recommended) |
| Client..... | Browser: IE11+, Edge, Chrome, Firefox, Safari |
| Licensing..... | License agreement renewed annually |

ABOUT TUNNEL RADIO

With nearly 40 years of expertise in confined space communications, Tunnel Radio of America knows firsthand that reliable connectivity and communication isn't just a matter of convenience—it's a critical component of worker safety. **Contact Tunnel Radio** today to learn more and get in touch with our team of communication experts.