

DISTRIBUTED POWER 450E MHz SYSTEM

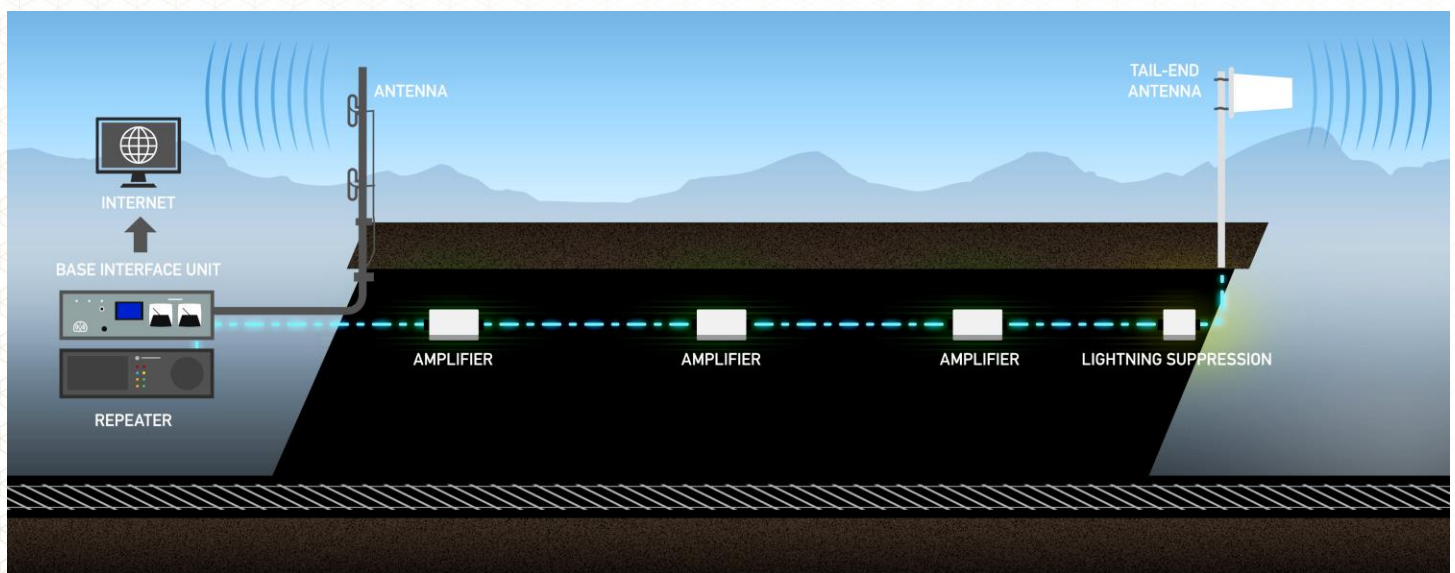
Distributed Power Tunnel Systems and EOT/HOT

FEATURES and BENEFITS

- Continuous data communication—regardless of length
- Rugged components designed to withstand the harsh rail environment
- Extends radio signals for GE 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

Overview of DP 450E MHz Tunnel Link™ Communication System

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





450 - 500 MHz AMPLIFIER, TRL-450E

SPECIFICATIONS

Electrical specifications (typical, TRL-450E)

Passband, UL, DL	445.0 – 456.0 MHz
Gain, DP, UL, DL	28 dB, max
Output power at 1dB compression (P_{1dB}), 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
DC Power	+11 to +36 VDC
Amplifier Spacing	350m / 1150'

Monitoring and Diagnostic (typical)

Server	OS: CentOS, Windows Server 2008+ CPU: 2.8 GHz, 2C, RAM:4G
Client	Browser: IE11+, Edge, Chrome, Firefox, Safari
Licensing	License agreement renewed annually

About Us

Tunnel Radio of America® creates leading-edge technologies that serve the needs of railroad systems worldwide. We have the technology to help you stay on top. Since 1993, when we launched our first railroad system, we have expanded our product line to completely encompass their changing needs. Tunnel Radio is doing our part to reduce fuel consumption, increase capacity and reduce the freight traffic on the nation's highways. Other countries are quickly following our lead.



TUNNEL-RADIO

Staying Connected is Everything