

Dual Band Network

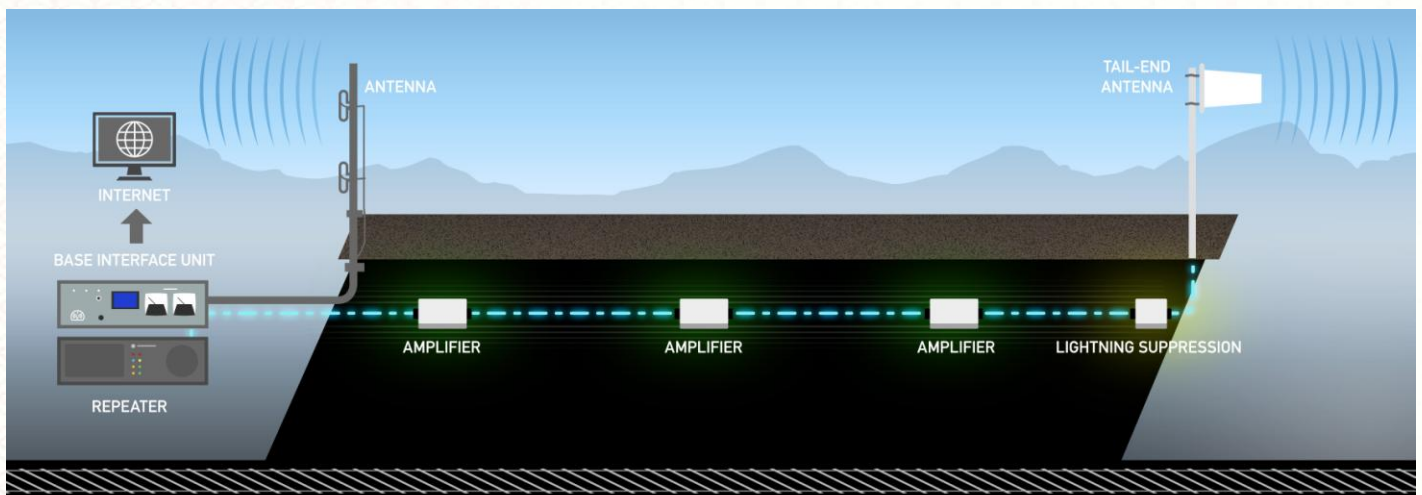
Multiplex System – 160 / 220 MHz

The Tunnel Radio Dual Band system is an integration of two separate systems, 220 MHz Positive Train Control and 160 MHz Tunnel Voice on a Single Cable in the tunnel. Utilizes the TR-160 / 220 DB Amplifier and Base Interface Unit.



Features: Integrates VHF dispatch voice and Positive Train Control 220 Mhz in Multiplex Mode on a single tunnel coax. TMS, IP capable, for local and remote diagnostics and alarming. Modular construction for simple servicing in the tunnel.

System Overview showing repeater, base interface unit, tunnel network, and antenna system





SPECIFICATIONS

Dual Band Network Multiplex System – 160 / 220 MHz

U.S. Patent Number 6041216 A

Base Interface TR-IFU2-FD4, TR-IFU2-220-RR-28V

Frequencies	160, 220, and 450 MHz
Dimensions	19" x 3.75" x 22" rack mount
Metering	Voltage and current

Amplifier TR-DS-160/20, TRL-220DB, TR-LA4-P-RAIL

Dimensions	4.75" x 8" x 3.5"
RF Gain	20 db 160/220 MHz
Voltage	32 VDC

TMS (Tunnel Monitoring System)

Monitoring (TMS/TMS-Net) Network Based	Relative RF out, DC, RX RSSI
Remote Viewing	With TR-TMS-NET and Ethernet connection available at Base Interface Unit

Cable TR-1505-CBL

Radiating Cable	Slotted copper cable
Maximum demonstrated system length	20 Amplifiers



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