

# VHE8

## VHF LEAKY FEEDER HEAD END

### DESCRIPTION

- The VHF Head End combiner is the core of the Leaky Feeder system. The unit add multiple radio or data channels into a composite signal into the Leaky Feeder network.
- VHE8 Head End combines up to eight (8) radio or data repeaters. Expansion unit can add extra eight (8) channels. Four (4) Leaky Feeder outputs or arterials are available to distribute the network.
- VHE8 is a 4U Rack Mounted unit with Female BNC connectors for Rx and Tx, and Female N connectors for the outputs.
- VHE8 is equipped with a special feature to connect additional accesories like a Master Unit for a Redundant Leaky Feeder System over Fiber Optic.
- Surface communications can be linked into the underground Leaky Feeder system through one arterial or adding an additional equipment like our Surface Coverage Area for extended range.
- Simple 12 VDC external power supply is required to provide 12, 24 or 48 VDC Leaky Feeder voltage to the arterials, the user can select the output voltage.



### SHORT DESC.

- VHE8 combines up to eight (8) voice or data channels. Expansion module adds eight (8) additional channels.
- VHE8 is equipped with the SMARTRing feature for a Redundant Leaky Feeder System.
- VHE8 is equipped with 4 ammeters and 1 voltmeter for local diagnostic.
- VHE8 is equipped with Overcurrent protections, Surge Overvoltage protections and DC / RF switches for the Maintenance Team.

### SPECS

- **Downlink Frequencies:** 146 - 158 MHz
- **Uplink Frequencies:** 168 - 176 MHz
- **Input RF power:** 10W Max, 2W Typ, 1W Min
- **Port to Port Isolation** 45 dB
- **Tx / Rx Isolation:** 70 dB
- **In / Out Impedance:** 28 dB Max
- **Arterial Current:** 3A per Arterial Max.
- **Input Voltage:** 12 VDC
- **Output Voltage:** 12, 24 or 48 VDC selectable
- **Connector:** Tx/Rx BNC-F, Outputs N-F
- **Grade protection:** IP55, Sealed Case, Convection
- **Operating Temperature:** -45°C to +55°C
- **Weight:** 7.1 Kg
- **Size:** 484 (W) x 350 (D) x 180 (H) mm3

