

# Make connected alive!

- Coverage Solution for Tunnels
- Coverage Solution for Indoor Areas
- Coverage Solution for Roads and Railways
- Coverage Solution for Outskirts Areas

## Bi-Directional Amplifier

## Bi-RT450C(UHF)

### Product Highlights

- With modularized design, easy for maintenance
- Software remote monitoring (serial port), easy for maintenance and management.
- IP55 dustproof & waterproof, with low requirements on installation environment;
- With high-linearity power amplifier and high-rejection duplexer, capable of rejecting intermodulation and spurious signals
- Channel Selective, signal boosters
- User adjustable gain control, UL and DL independent, per channel



## Applications

- Indoor coverage: tunnels and mobile fast-deploy communication units
- Outdoor coverage: stadiums, dense urban areas, rural areas, cliffs
- Tunnel coverage

## Specification

Specification	Value
Frequency range	450 - 520 MHz
Passband BW	2MHz max; 3MHz min banguard
Internal Duplexer	Yes
Number of Channels	Channel Selective ( BW adjustable), 1 to 8 adjustable subbands UL and DL (depends on configuration)
Gain, maximum	70 dB
Passband ripple	+/- 2.0 dB
Gain, manual control	15dB range, digitally controlled in 0.5dB steps
Antenna isolation	Max Gain + 15 dB
Composite output power, DL	+27 dBm composite
IM and spurious generation	< -13 dBm
Noise figure	9.0 dB max at maximum gain
Impedance	50 $\Omega$
Maximum input power, no damage	0 dBm (UL) -35dBm (DL)
Connectors	N(f) as standard
RF Input/Output impedance	50 $\Omega$
Alarms	Yes, amplifiers status, power amplifiers status, power supply failure, battery backup failure, temperature, AGC, RF overload, poor antenna isolation.
Power Supply	90 ~ 264 VAC
Power Consumption	170 W
Housing	IP55
Temperature range	-25° to +55° C
Cooling	Natural convection
Dimension	603 x 445 x 226 mm
Mounting	Wall mounting

### NOTES:

- All specifications shown are typical unless otherwise noted.
- All specifications are subject to change without notice.