

# Make Connected alive!

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

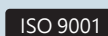
## Bi-Directional Amplifier

Bi-RT150B(VHF)

Bi-RT450B(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



## ELECTRICAL SPECIFICATIONS

Model No.	017VHF	017UHF
Frequency Band	136~174 MHz	440~512 MHz
Min. Frequency Spacing (Up to Down Link in Subband)	5 MHz(Typ.)	5 MHz(Typ.)
Min. Frequency Spacing (Subband to Subband)	5 MHz(Typ.)	5 MHz(Typ.)
Gain	$\geq 40$ dB	$\geq 40$ dB
Gain Adj. Range	$\geq 30$ dB	$\geq 30$ dB
RF Shutdown Function	Yes	Yes
Noise Figure	$\leq 5$ dB (RF)	$\leq 5$ dB (RF)
Amplifier O/P Power Max. (Downlink, Filter output)	$\geq 33$ dBm	$\geq 33$ dBm
Amplifier O/P Power Max. (Uplink, RT input)	$\geq -12$ dBm	$\geq -12$ dBm
OIP3(Downlink)	$\geq 48$ dBm	$\geq 48$ dBm
OIP3(Uplink)	$\geq -7$ dBm	$\geq -7$ dBm
Spurious Output	$\leq -36$ dBm	$\leq -36$ dBm
VSWR(Max.)	1.5:1	1.7:1
Nominal Impedance	50 ohms	50 ohms
DI channels	8	8
DO channels	8(optional)	8(optional)
AI channels	2(optional)	2(optional)
AO channels	2(optional)	2(optional)
System Voltage	110 VAC 12 VDC	110 VAC 12 VDC
Temperature Range	-10 ~ +60°C	-10 ~ +60°C

## MECHANICAL SPECIFICATIONS

Connectors	N Female	N Female
Enclosure	IP55	IP55
Finish	Painted	Painted
Dimensions (H x W x D) mm	603x445x226 ( $\pm 1\%$ )	603x445x226 ( $\pm 1\%$ )