

# TETRA Channel Selective RF BDA



**Tone Spread**  
Solutions for Wireless Signal

380-470 MHz

TS7A37H2

The TETRA Channel Selective BDA is designed to provide a more cost-effective solution than adding a new Base Transceiver Station (BTS) to improve signal coverage and communication quality in mobile system. And it's easy installation and maintenance can help carrier get fast return.

The BDA is working as a relay between the BTS and mobile terminals/ walkie talkie. It receives the low-power signal from BTS via the Donor Antenna, linearly amplifies the signal and then retransmits it via the Coverage Antenna to the weak/blind coverage area. And the radio network signal is also amplified and retransmitted to the BTS via the opposite direction.



## Features

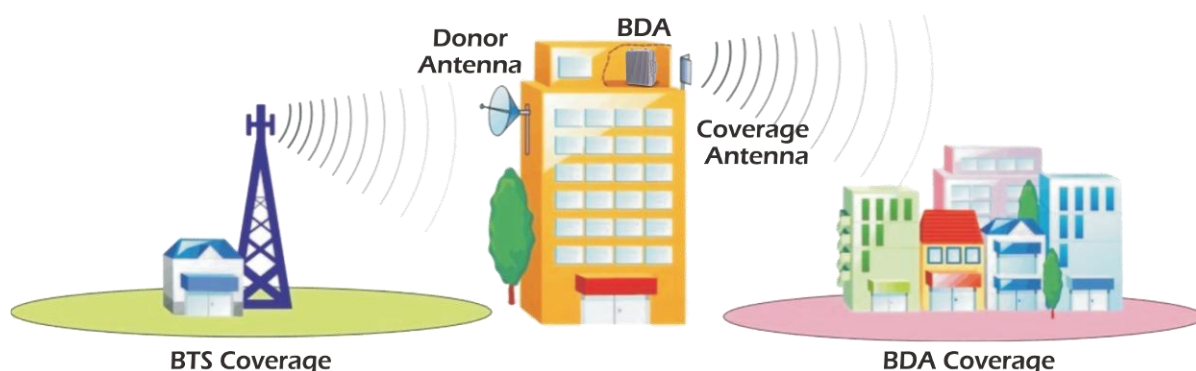
- Aluminum-alloy casing with IP65 protection has high resistance to dust, water and corrosion
- Channel-selective function can amplify only the signals transmitted by the customized 2 channels
- Adopting filter with highly selectivity and low insertion loss eliminates interference between uplink and downlink
- USB port provides a link to a notebook for local supervision or to the built-in wireless modem to communicate with the NMS (Network Management System) that can remotely supervise repeater's working status and download operational parameters to the BDA

## Applications

To expand signal coverage or fill signal blind area where signal is weak or unavailable.

Outdoor: Airports, tourism regions, golf courses, tunnels, factories, mining districts, villages, ...

Indoor: Hotels, exhibition centers, basements, shopping malls, offices, parking lots, ...



# Technical Specifications

Items		Specifications
System		TETRA
Frequency Range	Uplink/Rx	380~470MHz(At least 5MHz Guard Bandwidth Between Uplink and Downlink)
	Downlink/Tx	380~470MHz(At least 5MHz Guard Bandwidth Between Uplink and Downlink)
No. of Channels(Programmable)		2 Channels(Customized)
Maximum Output Power(Composite)	Uplink	27±2dBm
	Downlink	37±2dBm(Customized)
Maximum Gain		85±3dB
Gain Adjustment Range		0~31dB in Step of 1dB
AGC		≥20dB
VSWR		≤ 1.5
Noise Figure		≤ 6dB
Third-order Inter-Modulation		≤ -45dBc
Spurious Emission		9KHz~1GHz: ≤ -36dBm
		1GHz~12.75GHz: ≤ -30dBm
System Delay		≤ 5μs
I/O Impedance		50Ω
RF Connector		2xN-Female
Power Supply		AC100-240V%, 50/60Hz
Dimensions		447x357x203mm
Weight		≤ 17kg
Operating Temperature		-20 ~ +50 °C
Application		Indoor or Outdoor(IP65)
Relative Humidity Range		≤ 95%(Non Condensing)
LED Indicator		Power Supply, Alarm, Running
Mounting		Pole or Wall Mounting
Local Control		Via USB Interface or Wi-Fi Hotspot
NMS Mode(Optional)		Cloud NMS via 4G Wireless Modem

# Remote Monitoring (Cloud Network Management System)

