



OVERVIEW

BRIDGE repeater is the product to solve single coverage problem of indoor and outdoor. BDA receives weaky signal and boost the signal to a strong level. Which is fast to provide new and strong signal in weaky area or zero signal area.

BRIDGE Repeater is utilizing multimode technology to support and compatible with digital and analogue network at TETRA, DMR and PDT system. And with a full series of product family to support single Tx /Rx, dual Tx /Rx and multi Tx /Rx systems. Which is offering flexible options to users. Noise and interference control technology is to reduce the noise floor and interference. Various of RF features are optional, users may customized different features to max match with sites scenarios.

In the section of materials selection, BRIDGE products are all made of good and rugged materials, and guarantee brand new chipset and electronic components. Which make sure long product working life and stable working performance.

FEATURES

- Operation frequency is customizable in the frequency range 350-500MHz with 0.5-5MHz bandwidth and fixed 10MHz Duplex Tx /Rx separation as individually indicated at the purchase order.
- With good interference handling processes of out of channels, reducing Tx /Rx interference in system.
- Full Duplex mode, Tetra network
- Adopt PLL and ALC technology, high stability and reliability
- Outstanding digital IF signal procession technology
- Easy installation, operation and maintenance.
- Supports PA and power backup function (AC and PSU backup) with 2 PSU and 2 AC ports connecting to 2 separate external AC power sources

SITE APPLICATION

IN BUILDINGS WIRELESS BDA COVERAGE



1. Base Station
2. Donor Antenna
3. BDA

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BASEMENT OR TUNNELS BDA COVERAGE

1. Base Station
2. Donor Antenna
3. BDA
A. Service Antenna



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TECHNICAL DATA

Mechanical Specifications

RF Connection	N Female, 50Ω
Dimension (L xW xH)	490 ×410 ×232mm
Weight	≤30kg
Power Supply (Adapter)	AC100V~260V,50±5Hz (2 separate AC power sources for AC backup function)
Power Consumption	≤170W
Monitoring & Control	Local :RS232; Remote: RJ45 (IP Ethernet)

Environmental Specifications

Temperature	-25°C ~ +55°C
Humidity	≤95%
Ingress Protection	IP65
MTBF	≥50000h
Mounting	Wall or Pole Mount



41-WST4637BA-G1

UHF 5W WIRELESS BAND SELECTIVE BDA

Frequency: 350-500MHz | **Output Power:** 37dBm | **Power Supply:** AC100V /260V

Operation Band: Band Selective | **Duplexer Spacing:** 10MHz | **Usage:** Indoor & Outdoor

Special Functions: Supports PA and external power source backup (AC and PSU backup)



TECHNICAL DATA

Electrical Specifications		
Frequency Range (Customizable as indicated in the PO)	Uplink	Downlink
	350-500MHz	350-500MHz
Operation Bandwidth (Customizable)	0.5~5MHz	
Duplex Separation Between Tx And Rx	10MHz	
Output Power	30 ±2dBm	37 ±2dBm
Max Gain	85 ±3dB	90 ±3dB
Gain Adjustment Range	30dB	
Gain Adjustment Step	1dB	
Noise Figure	≤5dB	
Max No Damage Input Power	-10dBm	
Automatic Level Control (ALC)	Output power variation ≤2dB or be off when adding 10dB at max output power. Control range ≥30dB.	
Pass Band Ripple	≤3dB	
VSWR	≤1.5	
Time Delay	≤6.0μs	
Spectrum Emission	In-Band	≤-36dBm/3kHz or ≤-60dBc/3kHz
	Out-Of-Band (Deviation from the band edge outside 2.5MHz)	9kHz ~ 1GHz : ≤-36dBm
		1GHz ~ 12.75GHz : ≤-30dBm
Intermodulation	In-Band	≤-45dBc/30kHz
	Out-Of-Band (Deviation from the band edge outside 2.5MHz)	9kHz ~ 1GHz : ≤-36dBm
		1GHz ~ 12.75GHz : ≤-30dBm
Out Of Band Rejection	≤-40dBc @1MHz ≤-60dBc @5MHz	

Disclaimer : All images are for reference purposes only and specifications are subject to change without notice

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