



OVERVIEW

BRIDGE HOME BOOSTER is the product to solve signal coverage problems of indoor. Repeater receives weak signal and boost the signal to a strong level, fast to provide strong signal in poor coverage areas. BRIDGE product portfolio includes a full and flexible series of product family to support single band, dual band, triple band, and multiple band systems.

BRIDGE Repeater Series adopts multiple technologies compatible with GSM /WCDMA /LTE /NR systems. Its noise and interference control technology is to reduce the noise floor and interference. This product utilizes high-quality linear power amplifier to always maintain signal operation in a linear status. Various RF features are optional and customizable to fulfill different deployment and operation scenarios on site.

In the section of materials selection, BRIDGE products are all made of good and rugged material, including brand new chipsets and electronic components, ensuring stable performance and long product life.

FEATURES

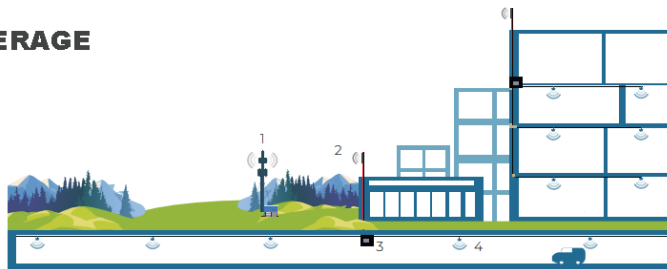
- Automatically detect isolation
- Automatic level control and gain control
- Bluetooth APP to tune parameters
- Power, Bluetooth, connection and alarm indicators
- RSSI, Isolation, Output Power, Power, AGC LED

APPLICATIONS

- Offices, homes, apartments
- Bookstores, restaurants, coffee shops
- Entertainment areas, such as KTV and bars
- Parking lots, super markets
- Various public or private areas

INBUILDINGS COVERAGE

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



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DATA SHEET

41-BPBAL18W2117-1

50mW DUAL-BAND HOME BOOSTER

Frequency: 1800MHz /2100MHz customizable | **Bandwidth:** 0.2-20MHz adjustable in full band

Max. Output Power: 17dBm | **Gain:** 70dB | **Power Supply:** AC110V /220V | **Usage:** Indoor

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TECHNICAL DATA

Electrical Specifications				
Item	FDD-LTE1800 (B3)		FDD-LTE2100 (B1)	
	Uplink	Downlink	Uplink	Downlink
Frequency (customizable)	1735-1755MHz	1830-1850MHz	1920-1980MHz	2110-2170MHz
Operation Bandwidth	0.2-20MHz adjustable in full wide band		0.2-20MHz adjustable in full wide band	
Max. RF Output Power	≥17dBm	≥17dBm	≥17dBm	≥17dBm
Max. Gain	≥70dB	≥70dB	≥70dB	≥70dB
Max. No Damage Input Power	-10dBm		-10dBm	
Noise Figure	≤10dB	/	≤10dB	/
Gain Control Range /Step	30dB /1dB step		30dB /1dB step	
AGC	Support		Support	
Auto Level Control (ALC)	Control range: ≥40dB		Control range: ≥40dB	
VSWR	≤1.5			
Time Delay	≤4.5μs			
EVM (RMS)	≤8%		≤8%	
ACRR	≥33dBc @5MHz & @10MHz			
Spurious Emissions	3GPP TS 36.106, In Band & Out Band			
Out of Band Gain	≤60dB @0.2MHz ≤ f_offset_CW < 1.0MHz			
	≤45dB @1.0MHz ≤ f_offset_CW < 5.0MHz			
	≤45dB @5.0MHz ≤ f_offset_CW < 10.0MHz			
	≤35dB @10.0MHz ≤ f_offset_CW			
Mechanical Specifications				
Dimension	185 x143 x30mm			
Weight	≤0.8kg			
Power Supply	AC110 /220V to DC5.5V Adapter			
RF Connector	2x N Female, 50Ω			
Local Control	USB, Bluetooth			
PA Shutdown	Support			
Environmental & Installation Specifications				
Temperature	-25 to +55°C			
Humidity	≤95%			
Ingress Protection	IP43, Indoor			
Installation	Wall or Plane Mount			

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