

DATASHEET

41-WWL18N21XX-HE1

0.1 / 0.5 / 2 / 5W TRI-BAND RF REPEATER

Frequency: 1710-1880MHz / 1920-2170MHz | Output Power: 20 / 27 / 33 / 37dBm

Gain: 65 / 80 / 85 / 90dB | Power Supply: AC100V / 240V | Usage: Indoor (20 / 27 / 33dBm), Outdoor (37dBm)



20dBm



27dBm



33dBm



37dBm

OVERVIEW

BRIDGE Repeater is the product to solve signal coverage problems of indoor and outdoor. 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 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

- Fully compatible with multi-mode systems.
- With good interference process of out of bands, reducing overall interference in the system.
- LCD light to indicate the alarm and operation status; simple to check the product performance
- Software programmed operation parameters
- Power supply complies with EN 60950

SITE APPLICATION



PRODUCT LIST

PRODUCT	PART NUMBER
20dBm /0.1W	41-WWL18N2120-HE1
27dBm /0.5W	41-WWL18N2127-HE1
33dBm /2W	41-WWL18N2133-HE1
37dBm /5W	41-WWL18N2137-HE1

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DATA SHEET

41-WWL18N2120-HE1

0.1W TRI-BAND RF REPEATER

Frequency: 1710-1870MHz /1920-2170MHz | Output Power: 20dBm

Gain: 65dB | Power Supply: AC100V /240V | Usage: Indoor



20dBm

TECHNICAL DATA

Electrical Specifications

Item	FDD-LTE1800 (B3)		FDD-NR2100 (n1)	
	Uplink	Downlink	Uplink	Downlink
Frequency Range	1710-1775MHz	1805-1870MHz	1920-1980MHz	2110-2170MHz
Operation Bandwidth	65MHz		60MHz	
Max. RF Output Power	20 ±2dBm	20 ±2dBm	20 ±2dBm	20 ±2dBm
Max. Gain	65 ±3dB	65 ±3dB	65 ±3dB	65 ±3dB
Max. No Damage Input Power	-10dBm		-10dBm	
Noise Figure	≤6dB	/	≤6dB	/
Pass Band Ripple (p-p)	≤±4dB		≤±4dB	
Manual Gain Control	0 - 31dB /1dB step		0 - 31dB /1dB step	
Auto Level Control (ALC)	Control range: ≥20dB		Control range: ≥20dB	
VSWR	≤2.4			
Time Delay	≤3μs			
EVM (RMS)	≤8%		≤3.5%	
Frequency Stability	≤0.01ppm			
Spurious Emissions	3GPP TS 36.106		3GPP TS 38.106	
Spectrum Emission Mask	3GPP TS 36.106		3GPP TS 38.106	

Mechanical Specifications

Dimension	250 x200 x50mm
Weight	2.5kg
Power Supply	AC100~240V, Comply with EN60950
Power Consumption	≤20W
RF Connector	2x N Female or 4.3-10 Female, 50Ω (customizable)
Local Control	LCD + Keypad & Wi-Fi via Web Browser, USB-C /RJ45 (customizable)
OMC	Through Wi-Fi, optional LTE Modem

Environmental & Miscellaneous Specifications

Temperature	-10 to +55°C
Humidity	≤95%
Ingress Protection	IP40, Indoor
Installation	Wall or Pole Mount
MTBF	≥50000h

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DATA SHEET

41-WWL18N2127-HE1

0.5W TRI-BAND RF REPEATER

Frequency: 1710-1870MHz /1920-2170MHz | Output Power: 27dBm

Gain: 80dB | Power Supply: AC100V /240V | Usage: Indoor



27dBm

TECHNICAL DATA

Electrical Specifications

Item	FDD-LTE1800 (B3)		FDD-NR2100 (n1)	
	Uplink	Downlink	Uplink	Downlink
Frequency Range	1710-1775MHz	1805-1870MHz	1920-1980MHz	2110-2170MHz
Operation Bandwidth	65MHz		60MHz	
Max. RF Output Power	20 ±2dBm	27 ±2dBm	20 ±2dBm	27 ±2dBm
Max. Gain	75 ±3dB	80 ±3dB	75 ±3dB	80 ±3dB
Max. No Damage Input Power	-10dBm		-10dBm	
Noise Figure	≤6dB	/	≤6dB	/
Pass Band Ripple (p-p)	≤±4dB		≤±4dB	
Manual Gain Control	0 - 31dB /1dB step		0 - 31dB /1dB step	
Auto Level Control (ALC)	Control range: ≥20dB		Control range: ≥20dB	
VSWR	≤2.4			
Time Delay	≤3μs			
EVM (RMS)	≤8%		≤3.5%	
Frequency Stability	≤0.01ppm			
Spurious Emissions	3GPP TS 36.106		3GPP TS 38.106	
Spectrum Emission Mask	3GPP TS 36.106		3GPP TS 38.106	

Mechanical Specifications

Dimension	350 x250 x65mm
Weight	6kg
Power Supply	AC100~240V, Comply with EN60950
Power Consumption	≤60W
RF Connector	2x N Female or 4.3-10 Female, 50Ω (customizable)
Local Control	LCD + Keypad & Wi-Fi via Web Browser, USB-C /RJ45 (customizable)
OMC	Through Wi-Fi, optional LTE Modem

Environmental & Miscellaneous Specifications

Temperature	-10 to +55°C
Humidity	≤95%
Ingress Protection	IP40, Indoor
Installation	Wall or Pole Mount
MTBF	≥50000h

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DATA SHEET

41-WWL18N2133-HE1

2W TRI-BAND RF REPEATER

Frequency: 1710-1880MHz /1920-2170MHz | Output Power: 33dBm

Gain: 85dB | Power Supply: AC100V /240V | Usage: Indoor



33dBm

TECHNICAL DATA

Electrical Specifications				
Item	FDD-LTE1800 (B3)		FDD-NR2100 (n1)	
	Uplink	Downlink	Uplink	Downlink
Frequency Range	1710-1785MHz	1805-1880MHz	1920-1980MHz	2110-2170MHz
Operation Bandwidth	75MHz		60MHz	
Max. RF Output Power	23 ±2dBm	33 ±2dBm	23 ±2dBm	33 ±2dBm
Max. Gain	80 ±3dB	85 ±3dB	80 ±3dB	85 ±3dB
Max. No Damage Input Power	-10dBm		-10dBm	
Noise Figure	≤5dB	/	≤5dB	/
Pass Band Ripple (p-p)	≤±4dB		≤±4dB	
Manual Gain Control	0 - 31dB /1dB step		0 - 31dB /1dB step	
Auto Level Control (ALC)	Control range: ≥20dB		Control range: ≥20dB	
VSWR	≤1.5			
Time Delay	≤3μs			
EVM (RMS)	≤8%		≤3.5%	
Frequency Stability	≤0.01ppm			
Spurious Emissions	3GPP TS 36.106		3GPP TS 38.106	
Spectrum Emission Mask	3GPP TS 36.106		3GPP TS 38.106	
Mechanical Specifications				
Dimension	350 x250 x110mm			
Weight	7kg			
Power Supply	AC100~240V, Comply with EN60950			
Power Consumption	≤60W			
RF Connector	2x N Female or 4.3-10 Female, 50Ω (customizable)			
Local Control	LCD + Keypad & Wi-Fi via Web Browser, USB-C /RJ45 (customizable)			
OMC	Through Wi-Fi, optional LTE Modem			
Environmental & Miscellaneous Specifications				
Temperature	-10 to +55°C			
Humidity	≤95%			
Ingress Protection	IP40, Indoor			
Installation	Wall or Pole Mount			
MTBF	≥50000h			

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DATA SHEET

41-WWL18N2137-HE1

5W TRI-BAND RF REPEATER

Frequency: 1710-1880MHz /1920-2170MHz | Output Power: 37dBm

Gain: 90dB | Power Supply: AC100V /240V | Usage: Indoor & Outdoor



37dBm

TECHNICAL DATA

Electrical Specifications

Item	FDD-LTE1800 (B3)		FDD-NR2100 (n1)	
	Uplink	Downlink	Uplink	Downlink
Frequency Range	1710-1785MHz	1805-1880MHz	1920-1980MHz	2110-2170MHz
Operation Bandwidth	75MHz		60MHz	
Max. RF Output Power	23 ±2dBm	37 ±2dBm	23 ±2dBm	37 ±2dBm
Max. Gain	85 ±3dB	90 ±3dB	85 ±3dB	90 ±3dB
Max. No Damage Input Power	-10dBm		-10dBm	
Noise Figure	≤5dB	/	≤5dB	/
Pass Band Ripple (p-p)	≤±4dB		≤±4dB	
Manual Gain Control	0 - 31dB /1dB step		0 - 31dB /1dB step	
Auto Level Control (ALC)	Control range: ≥20dB		Control range: ≥20dB	
VSWR	≤1.5			
Time Delay	≤3μs			
EVM (RMS)	≤8%		≤3.5%	
Frequency Stability	≤0.01ppm			
Spurious Emissions	3GPP TS 36.106		3GPP TS 38.106	
Spectrum Emission Mask	3GPP TS 36.106		3GPP TS 38.106	

Mechanical Specifications

Dimension	500 x440 x187mm
Weight	35kg
Power Supply	AC100~240V, Comply with EN60950
Power Consumption	≤250W
RF Connector	2x N Female or 4.3-10 Female, 50Ω (customizable)
Local Control	LCD + Keypad & Wi-Fi via Web Browser, USB-C /RJ45 (customizable)
OMC	Through Wi-Fi, optional LTE Modem

Environmental & Miscellaneous Specifications

Temperature	-10 to +55°C
Humidity	≤95%
Ingress Protection	IP65, Indoor & Outdoor
Installation	Wall or Pole Mount
MTBF	≥50000h

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