

DATASHEET

41-WWL09L18N21XX-HE1

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

Frequency: 885-960MHz / 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-WWL09L18N2120-HE1
27dBm / 0.5W	41-WWL09L18N2127-HE1
33dBm / 2W	41-WWL09L18N2133-HE1
37dBm / 5W	41-WWL09L18N2137-HE1

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Revised | B.1.1

DATA SHEET

41-WWL09L18N2120-HE1

0.1W TRI-BAND RF REPEATER

Frequency: 885-960MHz /1710-1870MHz /1920-2170MHz | **Output Power:** 20dBm
Gain: 65dB | **Power Supply:** AC100V /240V | **Usage:** Indoor



20dBm

TECHNICAL DATA

Electrical Specifications						
Item	FDD-LTE900 (B8)		FDD-LTE1800 (B3)		FDD-NR2100 (n1)	
	Uplink	Downlink	Uplink	Downlink	Uplink	Downlink
Frequency Range	885-915MHz	930-960MHz	1710-1775MHz	1805-1870MHz	1920-1980MHz	2110-2170MHz
Operation Bandwidth	30MHz		65MHz		60MHz	
Max. RF Output Power	20 ±2dBm	20 ±2dBm	20 ±2dBm	20 ±2dBm	20 ±2dBm	20 ±2dBm
Max. Gain	65 ±3dB	65 ±3dB	65 ±3dB	65 ±3dB	65 ±3dB	65 ±3dB
Max. No Damage Input Power	-10dBm		-10dBm		-10dBm	
Noise Figure	≤6dB	/	≤6dB	/	≤6dB	/
Pass Band Ripple (p-p)	≤±4dB		≤±4dB		≤±4dB	
Manual Gain Control	0 - 31dB /1dB step		0 - 31dB /1dB step		0 - 31dB /1dB step	
Auto Level Control (ALC)	Control range: ≥20dB		Control range: ≥20dB		Control range: ≥20dB	
VSWR	≤2.4					
Time Delay	≤3μs					
EVM (RMS)	≤8%		≤8%		≤3.5%	
Frequency Stability	≤0.01ppm					
Spurious Emissions	3GPP TS 36.106		3GPP TS 36.106		3GPP TS 38.106	
Spectrum Emission Mask	3GPP TS 36.106		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	≤30W					
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-WWL09L18N2127-HE1

0.5W TRI-BAND RF REPEATER

Frequency: 885-960MHz /1710-1870MHz/1920-2170MHz | **Output Power:** 27dBm
Gain: 80dB | **Power Supply:** AC100V /240V | **Usage:** Indoor



27dBm

TECHNICAL DATA

Electrical Specifications						
Item	FDD-LTE900 (B8)		FDD-LTE1800 (B3)		FDD-NR2100 (n1)	
	Uplink	Downlink	Uplink	Downlink	Uplink	Downlink
Frequency Range	885-915MHz	930-960MHz	1710-1775MHz	1805-1870MHz	1920-1980MHz	2110-2170MHz
Operation Bandwidth	30MHz		65MHz		60MHz	
Max. RF Output Power	20 ±2dBm	27 ±2dBm	20 ±2dBm	27 ±2dBm	20 ±2dBm	27 ±2dBm
Max. Gain	75 ±3dB	80 ±3dB	75 ±3dB	80 ±3dB	75 ±3dB	80 ±3dB
Max. No Damage Input Power	-10dBm		-10dBm		-10dBm	
Noise Figure	≤6dB	/	≤6dB	/	≤6dB	/
Pass Band Ripple (p-p)	≤±4dB		≤±4dB		≤±4dB	
Manual Gain Control	0 - 31dB /1dB step		0 - 31dB /1dB step		0 - 31dB /1dB step	
Auto Level Control (ALC)	Control range: ≥20dB		Control range: ≥20dB		Control range: ≥20dB	
VSWR	≤2.4					
Time Delay	≤3μs					
EVM (RMS)	≤8%		≤8%		≤3.5%	
Frequency Stability	≤0.01ppm					
Spurious Emissions	3GPP TS 36.106		3GPP TS 36.106		3GPP TS 38.106	
Spectrum Emission Mask	3GPP TS 36.106		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	≤90W					
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-WWL09L18N2133-HE1

2W TRI-BAND RF REPEATER

Frequency: 885-960MHz /1710-1880MHz /1920-2170MHz | **Output Power:** 33dBm
Gain: 85dB | **Power Supply:** AC100V /240V | **Usage:** Indoor



TECHNICAL DATA

33dBm

Electrical Specifications						
Item	FDD-LTE900 (B8)		FDD-LTE1800 (B3)		FDD-NR2100 (n1)	
	Uplink	Downlink	Uplink	Downlink	Uplink	Downlink
Frequency Range	885-915MHz	930-960MHz	1710-1785MHz	1805-1880MHz	1920-1980MHz	2110-2170MHz
Operation Bandwidth	30MHz		75MHz		60MHz	
Max. RF Output Power	23 ±2dBm	33 ±2dBm	23 ±2dBm	33 ±2dBm	23 ±2dBm	33 ±2dBm
Max. Gain	80 ±3dB	85 ±3dB	80 ±3dB	85 ±3dB	80 ±3dB	85 ±3dB
Max. No Damage Input Power	-10dBm		-10dBm		-10dBm	
Noise Figure	≤5dB	/	≤5dB	/	≤5dB	/
Pass Band Ripple (p-p)	≤±4dB		≤±4dB		≤±4dB	
Manual Gain Control	0 - 31dB /1dB step		0 - 31dB /1dB step		0 - 31dB /1dB step	
Auto Level Control (ALC)	Control range: ≥20dB		Control range: ≥20dB		Control range: ≥20dB	
VSWR	≤1.5					
Time Delay	≤3μs					
EVM (RMS)	≤8%		≤8%		≤3.5%	
Frequency Stability	≤0.01ppm					
Spurious Emissions	3GPP TS 36.106		3GPP TS 36.106		3GPP TS 38.106	
Spectrum Emission Mask	3GPP TS 36.106		3GPP TS 36.106		3GPP TS 38.106	
Mechanical Specifications						
Dimension	350 x250 x110mm					
Weight	9kg					
Power Supply	AC100~240V, Comply with EN60950					
Power Consumption	≤85W					
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-WWL09L18N2137-HE1

5W TRI-BAND RF REPEATER

Frequency: 885-960MHz /1710-1880MHz /1920-2170MHz | **Output Power:** 37dBm
Gain: 90dB | **Power Supply:** AC100V /240V | **Usage:** Indoor & Outdoor



37dBm

TECHNICAL DATA

Electrical Specifications						
Item	FDD-LTE900 (B8)		FDD-LTE1800 (B3)		FDD-NR2100 (n1)	
	Uplink	Downlink	Uplink	Downlink	Uplink	Downlink
Frequency Range	885-915MHz	930-960MHz	1710-1785MHz	1805-1880MHz	1920-1980MHz	2110-2170MHz
Operation Bandwidth	30MHz		75MHz		60MHz	
Max. RF Output Power	23 ±2dBm	37 ±2dBm	23 ±2dBm	37 ±2dBm	23 ±2dBm	37 ±2dBm
Max. Gain	80 ±3dB	90 ±3dB	80 ±3dB	90 ±3dB	80 ±3dB	90 ±3dB
Max. No Damage Input Power	-10dBm		-10dBm		-10dBm	
Noise Figure	≤5dB	/	≤5dB	/	≤5dB	/
Pass Band Ripple (p-p)	≤±4dB		≤±4dB		≤±4dB	
Manual Gain Control	0 - 31dB /1dB step		0 - 31dB /1dB step		0 - 31dB /1dB step	
Auto Level Control (ALC)	Control range: ≥20dB		Control range: ≥20dB		Control range: ≥20dB	
VSWR	≤1.5					
Time Delay	≤3μs					
EVM (RMS)	≤8%		≤8%		≤3.5%	
Frequency Stability	≤0.01ppm					
Spurious Emissions	3GPP TS 36.106		3GPP TS 36.106		3GPP TS 38.106	
Spectrum Emission Mask	3GPP TS 36.106		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	≤350W					
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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