



2100MHz Single Band Home Repeater Kit

(FS21L1010D)





1. Introduction

"2100 Single Band Home Repeater» is a smalls-sized repeater for home use consists of Patch Antenna, Link Cable, Repeater and AC/DC Adaptor. Due to its Auto Gain Control and Isolation check function, easy installation is possible without test equipment or technician. In addition, this product can be simply connected to PC through its mini-USB port, and dedicated PC GUI. Service Antenna is built-in to the repeater to reduce extra antenna and cable.

"2100 Single Band Home Repeater" has followings key features;

- Supports 2.1GHz LTE Simultaneously
- +10dBm Output with 60dB Gain
- Easy Installation by Built-in AGC, Isolation Check & Auto Shut Down feature
- Uplink Sleep Mode reduce the BTS Noise Floor
- Built in Service Antenna

- High Reliability & Proven Quality by Korean, Egypt & Malta Operators
- Compact Size of 90 * 125 * 35mm
- Fancy Cosmetic Design Fit with your Beautiful Home Interior

2. Application

- Home use
- SOHO

3. Kit consist of

- Repeater with Wall Mount Bracket
- Donor Patch Antenna
- 3D-FB Coaxial Cable, 10m
- AC/DC Adaptor, 5.9V / 2.5A



4. Electrical Specification (Common)

ltem		Specification	Remark
5 5	DL	2170 ~ 2150MHz	DW 201411
Frequency Range	UL	1980 ~ 1960MHz	BW 20MHz
SystemGain	SystemGain		
Outrout Local		10+dBm / Total	Built-in Antenna
Output Level	UL	10+dBm / Total	Ext. Antenna
Gain Control Range / Step		30dB/1dB	
A. A. a. a. a. bia Charles and Laurell	DL	≤ 13dBm/Total	±2dB
Automatic Shutdown Level	UL	≤ 13dBm/Total	±2dB
System Delay		≤ 6uS	
In Band Flatness	In Band Flatness		Peak-to-peak
TX/ RX Isolation		≧85dBc	
VSWR		≤1.5:1	
Noise Figure		≤ 6dB	@Max. Gain
		Power	
Visual Alarms By		Isolation	
LED		AGC	
		Over Power	
Dedicated PC GUI Interface Port		Micro USB 5P	
Power Consumption		AC 100~240V, 5W	5.9V, 2.5A Adapter

4-1. LTE Specification

ltem		Specification	Remark
Spectrum Emission Mask 5.05 N	0.05 ≤ f_offset < 5.05 MHz	$-36dBm - \frac{6}{5} \left(\frac{f _ offset}{MHz} - 0.05 \right) dB$	
	5.05 MHz ≤f_offset<10.05 MHz	42dBm/100kHz	
	10.05MHz ≤ f_offset <f_offsetmax< td=""><td>{P-52dB,2dBm≤P≤20dBm {-50dBm,P<2dBm /1MHz</td><td></td></f_offsetmax<>	{P-52dB,2dBm≤P≤20dBm {-50dBm,P<2dBm /1MHz	
Spurious Emission 9KHz ~ 150KHz 150KHz ~ 30MHz	13-dBm/1KHz max.		
	150KHz ~ 30MHz	13-dBm/10KHz max.	



	30MHz ~ 1GHz	13-dBm/100KHz max.	
	1GHz ~ 12.75GHz	13-dBm/1MHz max.	
EVM(Error Vector Magnitude)		≤ 8%	
ACRR		+25dBc	

^{*} Otherwise specified above, we fully comply with 3GPP standard.

5. Antenna Specification

ltem -		Specification		Remark
		Donor	Service	Remark
Frequency Range		1,920 ~ 2,170MHz		
Gain		≥ 7dBi	≥ 2dBi	
Beam Width	Horizontal	≥ 60°	≥ 60°	
	Vertical	≥ 50°	≥ 50°	
F - B Ratio		≥ 15dB	≥ 15dB	
VSWR		≤1.5	≤ 2.0	
Polarization		Vertical		
Impedance		50Ω		
Maximum Input Power		20V	Vatt	

6. Environmental Specification

ltem	Specification	Remark
Operating Temperature	0 ~ 45°C	

7. Mechanical Specification

ltem		Specification	Remark
Weight	Repeater Body	420g	
vveignt	Whole Package	1.47Kg	w/Accessories
Dimension,	Repeater Body	35 * 125 * 90	
in mm(W*H*D)	Whole Package	75 * 236 * 377	w/Accessories



8. Outline Drawing

