



# Digital Multiple Sub-blocks Repeater

## Overview

Digital Multiple Sub-blocks Repeater provides the most cost-effective solution to improve user experience of high quality mobile services in indoor environment.

With the features of multiple sub-blocks, Digital Multiple Sub-blocks Repeater is the best solution for either one carrier owning separated spectrum blocks or co-site deployment of more than one carrier. Software programmability of frequency bandwidth of every sub-block is suitable for required frequency planning in field deployment. Independency of setting and control among different sub-blocks in terms of gain and automatic output power control facilitate the user preference in order to optimize the required signal coverage.



## Key Features

- Digital Repeater of Single Band with Multiple Sub-blocks
- Supported System: WCDMA / LTE FDD
- +17dBm of Output Power
- 75dB of Maximum Gain
- Programmable Sub-Block Bandwidth
- Low Power Consumption without Any Cooling Fan Inside

## Applications

- Indoor coverage



## Specification

Digital Multiple Sub-blocks Repeater		
Model Name	sDR-01	sDR-03
Part Number	1100213012	1100213013
System	WCDMA	LTE
Frequency Range (MHz)	3GPP Band 1	FDD for 3GPP Band 1/3
Bandwidth / Number of Sub-block	5/10/15/20MHz Programmable / 4 sub-blocks	
Max. Gain	≥75dB	
Max. Output Power UL/DL	17 / 17dBm	
Manual Gain Control	≥30dB@1dB/Step	
Automatic Gain Control	N/A	
Gain Flatness	≤±1.5dB	
Group Delay	≤ 6μs	≤ 4.5μs
UL / DL EVM	≤8% (at Max. Output Power)	
UL Noise Figure	≤8dB (at Max. Gain)	
VSWR	≤1.5	
Max. Input Power Without Damage UL / DL	≥0dBm	
Synchronization Detection Sensitivity	N/A	
Frequency Stability	Compliant to 3GPP TS 25.106	Compliant to 3GPP TS 36.106
Out of Band Gain		
Unwanted Emission		
Spurious Emission		
Input Intermodulation		
Output Intermodulation		
Adjacent Channel Rejection Ratio		
Intermodulation	N/A	
PCDE	≤-35dB	N/A
RF connector/Impedance	SMA*2 / 50Ω	
Power Supply/Consumption	100~240ACV , 50/60Hz/ ≤12W	
Dimensions / Weight	189mmx170mmx67mm / ≤1.2kgw	
IP Rating	IP40	
Operating Temperature	-30°C ~ +55°C	
MTBF	50,000 hrs	
Automatic Shut-down Function	RSSI Over power/Under power Shutdown, Isolation Shutdown	
LED Indicators(Optional)	[RSSI] Green LEDx4 to Indicate DL Received Power Strength [AGC] Red LEDx1 to Indicate AGC Out of Range Alarm [Power] Green LEDx1 to Indicate The Unit is Operating [Sleep] Green LEDx1 to Indicate UL Transmission Mute [Output Power] Green LEDx4 to indicate DL Output Power	
Local Control	OMT over Mini-B USB or RS232	

Specifications are subject to change without prior notice.