

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/TD-LTE
- +17dBm of Output Power
- 75dB of Maximum Gain
- Programmable Sub-Block Bandwidth
- Low Power Consumption without Any Cooling Fan Inside

Applications

- Indoor coverage



TranSystem. Inc.

Tel: + 886-3-578-0393 Fax: + 886-3-578-4111
Inquiries: sales@transystem.com.tw

Address: No. 1-2, Li-Hsin Rd I, Science-Based Industrial Park,
Hsinchu, Taiwan, R.O.C.
Web site: <http://www.transystem.com.tw>





Specification

Digital Multiple Sub-blocks Repeater		
System	WCDMA	LTE
Frequency Range (MHz)	3GPP Band 1/Band8	FDD for 3GPP Band 1/2/3//4/7/8/28 TDD for 3GPP Band 38/39/40/41
Bandwidth/Number of sub-block	5/10/15/20MHz Programmable/ 4 sub-blocks	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	For TDD only RSRP -105dBm@20MHz
Frequency Stability	Compliant to 3GPP TS 25.106	Compliant to 3GPP TS 36.106
Out of Band Gain	Compliant to 3GPP TS 25.106	Compliant to 3GPP TS 36.106
Unwanted Emission	Compliant to 3GPP TS 25.106	Compliant to 3GPP TS 36.106
Spurious Emission	Compliant to 3GPP TS 25.106	Compliant to 3GPP TS 36.106
Intermodulation	N/A	N/A
Input Intermodulation	Compliant to 3GPP TS 25.106	Compliant to 3GPP TS 36.106
Output Intermodulation	Compliant to 3GPP TS 25.106	Compliant to 3GPP TS 36.106
Adjacent Channel Rejection Ratio	Compliant to 3GPP TS 25.106	Compliant to 3GPP TS 36.106
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	

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