L915CE – GSM/UMTS/LTE 900MHz Band

Selective 15dB repeater

NX - Network Expertise Sweden AB

The L915CE GSM/UMTS/LTE 900MHz band selective repeater enhance the indoor cellular coverage for individual operators. The repeater is using the industrial band selective solution with IF SAW filters, which could only boost the signal of the specific frequency of a operator, as often demanded by PTT's in EU territory. Except the traditional MGC, AGC function, the repeater has also introduced many other function, such as the Input and Output Signal Strength indicators, Antenna isolation detection, Smart mode and Uplink silent mode that turns of the repeaters uplink to minimize possible uplink interference.

Easy configuration via front panel LCD display and indicators

Each L915CE is delivered with a LCD based user friendly configuration manager interface that provides the operator, via a touch screen, to set up the repeater frequency and parameters fast, easy and simple with operational user friendliness. The input signal indicators shows the input from the donor antenna to ensure correct angle against possible base stations.

Auto Level Control (ALC)

The ALC maintain steady output power even when the donor source signal fluctuates. It also prevents UL interference and self-oscillation from insufficient isolation between donor and server antennas.

Antenna Isolation Detection (AID)

The AIT function detect and prevent interference and self-oscillation caused by insufficient isolation between donor and server antennas.

Manual Gain Control (MGC)

The MGS provide manual gain attenuation to ensure flexibility to various signal conditions.

Smart mode (S)

Smart function set the gain attenuation automatically to prevent interference and alarm.

Uplink silent mode (USM)

USM turns of the uplink gain when there is no call or data transmission via the repeater. It will activate immediately when a call a data session is initiated. USM minimize possible uplink interference.

Specifications

Electrical Specification	UMTS/LTE/GSM900	880-915MHz	925-960MHz
Bandwidth		10MHz fixed bandwidth with movable central frequency	
Maximum Gain		≧65dB	≧70dB
Output Power		≧15dBm	≧15dBm

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Out of Band Gain	2.7≦f_offset＜3.5MHz	<60dB
	3.5≦f_offset＜7.5MHz	<45dB
	7.5≦f_offset＜12.5MHz	<45dB
	12.5≦f_offset	<35dB
Spurious Emission	9kHz~150KHz	≦ -36dBm/1 kHz
	150kHz~30MHz	≦ -36dBm/10 kHz
	30MHz~1GHz	≦ -36dBm/100 kHz
	1 GHz ~ F_{low} - 10 MHz	≦ -30dBm/1 MHz
	F_{low} - 10 MHz ~ F_{high} + 10 MHz	≦ -15dBm/1 MHz
	F_{high} + 10 MHz ~12.75 GHz	≦ -30dBm/1 MHz
ACRR		20dBc/30KHz@±5MHz
		20dBc/30KHz@±10MHz
Frequency Stability		≦±0.01ppm
Error Vector Magnitude		≦ 12.5%
Peak Code Domain Error		≦-35dB@Spreading Factor 256
Auto Gain Control(AGC)		≧20dB
Manual Gain Control		31dB/1dB step
Gain Flatness		≦4dB(P-P)
Noise Figure		≦ 6dB
VSWR		≦1.8
Group Delay		≦ 5μs
Power Consumption		≦ 15W
Power Supply		DC 4A/9V
Mechanical specification		
Dimensions		248*166*55mm
Weight		≦2Kg
I/O Connector/ Impedance		N-female
Environmental specification		
IP Rating		IP40
Operating Temperature		-10℃~55℃
CE and ROHS		Approved: 1999/5/EC, 2004/108/EC and 2014/53/EU
Monitoring specification		
LED indication	Power LED	DC ON/OFF
	Alarm LED	Antenna isolation is lower than the isolation for equipment installation Or ALC1～5dB,red

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