# Tri-Band GSM&DCS&WCDMA Outdoor Repeater From http://www.jammerbooster.com/

MODEL:	KR-4090GDW
SIZE:	690mm* 420mm*260mm
PACKAGE:	Neutral packing

# **GSM & DCS & WCDMA Tri-Band Outdoor Repeater**

Model: KR-4090GDW

#### Introductions:

The GSM&DCS&WCDMA Tri-Band RF Repeater (RFR) is designed to provide a more cost-effective solution than adding a new Base Transceiver Station (BTS) to improve signal coverage and communication quality in GSM900&DCS1800&WCDMA system. And its easy installation and maintenance can help carrier get fast return.

The repeater is working as a relay between the BTS and mobiles. It receives the low-power signal from BTS via the Donor Antenna, linearly amplifies the signal and then retransmits it via the Coverage Antenna to the weak/blind coverage area. And the mobile signal is also amplified and retransmitted to the BTS via the opposite direction.

#### Features:

- n Band-Selective RF Repeater: to amplify all signals in the whole band (bandwidth is customized)
- n Aluminum-alloy casing with IP65 protection has high resistance to dust, water and corroding
- n Highly selective channel selector can process 2 channels simultaneously
- n No interference to BTS by adopting linear amplifier with high gain and low noise
- n Adopting filter with highly selectivity and low insertion loss eliminates interference between uplink and downlink

n USB or RS-232 port provides a link to a notebook for local supervision or to the built-in wireless modem to communicate with the NMS (Network Management System) that can remotely supervise repeater's working status and download operational parameters to the repeater

## **Applications:**

To expand signal coverage or fill signal blind area where signal is weak or unavailable.

Outdoor: Airports, tourism regions, golf courses, tunnels, factories, mining districts, villages, etc;

Indoor: Hotels, exhibition centers, basements, shopping malls, offices, parking lots, etc.

### **Technical Specifications:**

Items

Working Frequency	Uplink	907.8~914.8/1710.2~1717.4	MHz	1960-
	Downlink	952.6~959.8/1805.2~1818.4	MHz	2150-
(customized)				
Gain			? 100dB	
Gain Adjustment Range			1~31 dB @ step of	1 dB
Output Power			40 dBm	
Adjacent Channel Power Ratio (ACPR)		-		P ? 31 dBm: (Off
				P ? 31 dBm: (Off
				P < 31 dBm: (Of
				P <31 dBm: (Off:
Voltage Standing Wa			< 1.5	
Error Vector Magnitue		-		?
Out-of-Band Ga	in	-		2.7 ? f_offset
				3.5 ? f_offset
				7.5 ? f_offset
				12.5 ? f_
Peak Code Domain Err	or (PCDE)	-		?
Noise Figure	•		? 6dB	
In-band Rippl	е	? 3dB(GS	M)/ ? 5dB(DCS) /? 3dB(\	WCDMA@3.84MHz)
System Delay			? 5.0?Sec	
Spurious Emiss	ion	Within working band: ? -15dBm	/30kHz	Comply with 3G

9kHz~1GHz: ? -36dBm/30kHz

GSM 900&DCS1800

1GHz~12.75GHz: ? -30dBm/30kHz

? -40dBc / 30kHz (measured under rated output power)

Comply with 3G

In-band Intermodulation Attenuation

I/O Impedance
RF Connector
AGC / ALC
Temperature Range
Relative HumidityRange
Power Supply (customized)
Backup Power Supply (optional)
Dimensions
Weight
NMS Monitoring Function

50?

N-Type (Female) (one BTS Port and one MS port)
Supported

Operation: -25°C ~ +55°C/ Storage: -30°C ~ +60°C
? 95% (non condensing)

DC +24V / AC 220V±15%, 50Hz
4 hours

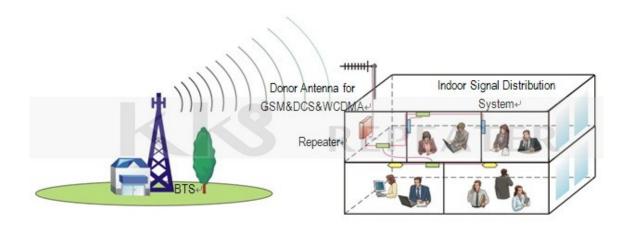
690mm X 420mm X 260mm 55kg

TTL Signal (dry connection) generated for real-time alarm for door status, te LNA, VSWR, etc;

Remote control such as turn on/off, increasing/decreasing output power, etc

Real-time status for output/input power, UL/DL gain, all status of repeater e







BTS