
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

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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 1 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	GSM 900&DCS1800		W
Working Frequency	Uplink	907.8~914.8/1710.2~1717.4 MHz	1960-
(customized)	Downlink	952.6~959.8/1805.2~1818.4 MHz	2150-
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: (Off
			P <31 dBm: (Offs
Voltage Standing Wave Ratio			< 1.5
Error Vector Magnitude (EVM)		-	?
Out-of-Band Gain		-	2.7 ? f_offset
			3.5 ? f_offset
			7.5 ? f_offset
			12.5 ? f_
Peak Code Domain Error (PCDE)		-	?
Noise Figure			? 6dB
In-band Ripple		? 3dB(GSM)/ ? 5dB(DCS) /? 3dB(WCDMA@3.84MHz)	
System Delay			? 5.0?Sec
Spurious Emission		Within working band: ? -15dBm/30kHz	Comply with 3G
		9kHz~1GHz: ? -36dBm/30kHz	

In-band Intermodulation Attenuation	1GHz~12.75GHz: ? -30dBm/30kHz ? -40dBc / 30kHz (measured under rated output power)	Comply with 3G
I/O Impedance		50?
RF Connector		N-Type (Female) (one BTS Port and one MS port)
AGC / ALC		Supported
Temperature Range		Operation: -25°C ~ +55°C/ Storage: -30°C ~ +60°C
Relative HumidityRange		? 95% (non condensing)
Power Supply (customized)		DC +24V / AC 220V±15%, 50Hz
Backup Power Supply (optional)		4 hours
Dimensions		690mm X 420mm X 260mm
Weight		55kg
NMS Monitoring Function	TTL Signal (dry connection) generated for real-time alarm for door status, temperature, 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 etc	



