

CR900 Series Frequency Shifting Repeater

This frequency Shifting type repeater is designed for GSM900 system. It is suitable for highway, rural and carrier congested urban applications.

Donor cell signal frequency is converted to other frequency* in repeater near unit for wireless transmission and re-converted back to original frequency in far end unit to provide coverage in far end area. Save fiber optic and microwave transmission cost.

SAW filter and Feed Forward technologies are used. Performance is low Noise, low Spurious, high Linearity, low Interference and high Reliability.

Built-in RS232 control port enables convenience field adjustment of repeater output power, gain and operation bandwidth. Optional remote control and monitoring system. (Via fixed line or wireless modem)

Packed in IP55 case. Optional outdoor IP66 version.
*Exact frequency subjected to different country law.



Part No.	CR900-30A-80CFG-M (Relay Unit) CR900-30A-80CFG-M WP (Relay Unit)	
Item	Frequency Conversion Unit (Relay Unit)	
Frequency Range	UL: 890~915MHz	DL: 935~960MHz
Up Converted Frequency	1.5GHz or 2.4GHz (optional)	
Gain	UL: 80dB	DL: 90dB
Frequency Converted	frequency converted to 1.5GHz~2.4GHz frequency band	
Pass Band Ripple	≤ 2dB	
Gain Adjustment Range	44dB	
Gain Adjustment Step	2dB	
Gain Adjustment Precision	0~20dB ≤ ± 1dB	21~44dB ≤ ± 1.5dB
Frequency Error	in band: ≤ ± 0.05ppm	
Output Power (ALC Trip Point)	UL: 10~30dBm	DL: 30dBm
Monitoring Port	- 30dB	
Spurious Emissions	≤ -36dBm@9KHz~1GHz ≤ -30dBm@1~12.75GHz	
3-rd Interception Point	UL: ≥ 55dBm	DL: ≥ 55dBm
Noise Figure	≤ 4.5dB(Gain Max.)	
Time Delay	≤ 5μs	
VSWR	≤ 1.4 : 1	
Impedance	50 Ω	
Connector	N-F	
Operating Temperature	- 30~60°C	
Power Supply	220V AC	
Dimensions	590 X 490 X 205mm	
Weight	24kg	Power Consumption 110 Watt

Eyecom company policy is one of continuing improvement, therefore we reserve the right to change this specification without notice.