

CR900 Series GSM Solar Cellular Repeater

This band selective repeater is designed for GSM900 system. It is powered by solar cells, suitable for rural, farm, lake and highway coverage application where AC power supply is not available.

SAW filter and high efficiency amplifier 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)

Come with solar cells and Ni-Cad maintenance free battery. Packed in IP66 case.



GSM900, CDMA and GSM1800(DCS1800) Repeater

Part No.	CR900-30A-90SE	CR900-30A-90ASE	CR900-30A-90BSE
Frequency Range	UL: 890~915MHz DL: 935~960MHz	UL: 890~909MHz DL: 935~954MHz	UL: 909~915MHz DL: 954~960MHz
Gain	UL: 90dB DL: 100dB	UL: 90dB DL: 100dB	UL: 90dB DL: 100dB
Pass Band Ripple	≤ 2dB	≤ 2dB	≤ 2dB
Gain Adjustment Range	44dB	44dB	44dB
Gain Adjustment Step	2dB	2dB	2dB
Gain Adjustment Precision	0~20dB ≤ ± 1dB 21~44dB ≤ ± 1.5dB	0~20dB ≤ ± 1dB 21~44dB ≤ ± 1.5dB	0~20dB ≤ ± 1dB 21~44dB ≤ ± 1.5dB
Frequency Error	in band: ≤ ± 0.05ppm	in band: ≤ ± 0.05ppm	in band: ≤ ± 0.05ppm
Output Power (ALC Trip Point)	UL: 10~30dBm DL: 30dBm	UL: 10~30dBm DL: 30dBm	UL: 10~30dBm DL: 30dBm
Monitoring Port	-30 dB	-30 dB	-30 dB
Spurious Emissions	≤ -36dBm@9KHz~1GHz ≤ -30dBm@1~12.75GHz	≤ -36dBm@9KHz~1GHz ≤ -30dBm@1~12.75GHz	≤ -36dBm@9KHz~1GHz ≤ -30dBm@1~12.75GHz
3-rd Interception Point	≥ 55dBm	≥ 55dBm	≥ 55dBm
Noise Figure (Gain Max.)	≤ 4.5dB	≤ 4.5dB	≤ 4.5dB
Time Delay	≤ 5μs	≤ 5μs	≤ 5μs
VSWR	≤ 1.4 : 1	≤ 1.4 : 1	≤ 1.4 : 1
Impedance	50 Ω	50 Ω	50 Ω
Connector	N-F	N-F	N-F
Operating Temperature	-30~60°C	-30~60°C	-30~60°C
Power Supply	55WX2 solar battery +300AH accumulators	55WX2 solar battery +300AH accumulators	55WX2 solar battery +300AH accumulators
Dimensions	590X490X205mm	590X490X205mm	590X490X205mm
Weight	24kg	24kg	24kg

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