

CSHP902

High Power Frequency Translating Repeater for GSM900

General

The CSHP902 repeater provides output power levels comparable to Base Stations in GSM900 Networks. The frequency translation concept used in the repeater allows a high gain without the high antenna isolation requirements of conventional repeaters. The CSHP902 consists of 2 units, a Donor Unit placed close to the BTS and a Remote Unit at the selected site. The repeater can be configured for 1 or 2 GSM carriers.



Features

- Output power comparable to a base station - up to 15 watts
- Low isolation requirements

Specifications

Frequency range Uplink	890 - 915 MHz
Frequency range Downlink	935 - 960 MHz
Selectivity	ETS 300 609-4 / GSM 11.26
Max input level (no damage)	+ 10 dBm
*Single server antenna option SD/IR:	
Output power per carrier - Remote (IR)	+ 38 dBm (DL) + 33 dBm (UL) min
Output power per carrier - Donor (SD)	+ 33 dBm (DL) -10dBm (UL) min
*Two server antenna option DD/ER:	
Output power per carrier - Remote (ER)	+ 41 dBm (DL) + 33 dBm (UL) min
Output power per carrier - Donor (DD)	+ 33 dBm (DL) -7 dBm (UL) min
Number of carriers	1 - 2
Gain - Remote (IR)	72 - 102 dB adjust in 2 dB steps
Gain - Remote (ER)	75 - 105 dB adjust in 2 dB steps
Gain - Donor (SD)	15 - 45 dB adjust in 2 dB steps
Gain - Donor (DD)	12 - 42 dB adjust in 2 dB steps
Return loss	> 16 dB
Noise Figure	3 dB typical, <4 dB at max gain
Group delay	6 μ s typical
Spurious products	<-36 dBm at output
Supply voltage	230 \pm 20% VAC, 24 or 48VDC opt
Power consumption (Remote Unit)	< 60 W idle / 110W typical
Connectors	7/16 / N-type female
Dimensions (H x W x D)	455 \times 305 \times 210 mm (each unit)
Cooling	Convection
Environmental rating class	IP65
Temperature range	-25 $^{\circ}$ C to +55 $^{\circ}$ C



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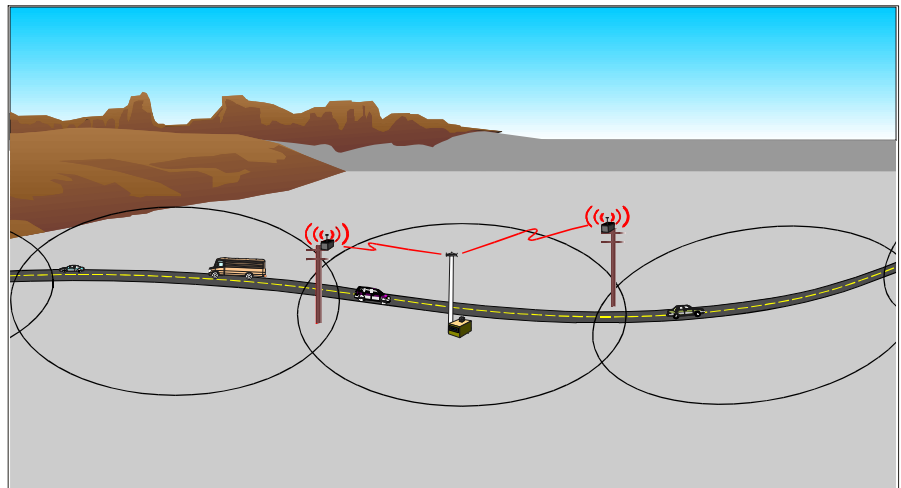
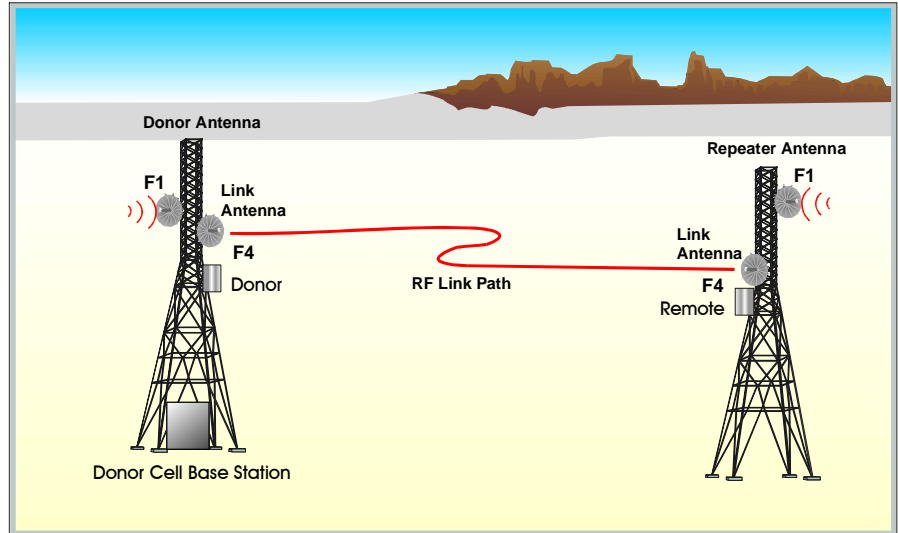
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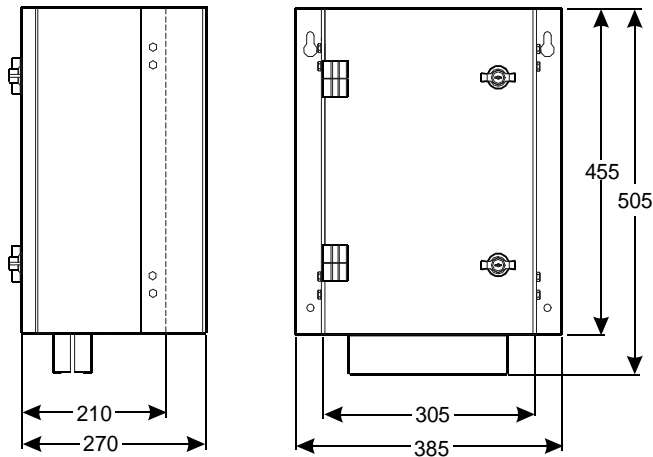
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Application Examples



Repeater Dimensions in (mm)



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