



MODEL EGSMR7H-xxxC2S
EGSMR 33 dBm / 2 Channels



Great efficiency of coverage indoor applications.



PC repeater configuration software

PRODUCT DESCRIPTION

RETEMOSA's switched repeater allows to have a gain of 15 dB over the isolation between antennas. This new technology solved the isolation problem that arises between antennas installed in the same mast without the use of two repeaters and without any change of frequency.

The systems receives the signal form the BTS, follows open the switch of the input – avoid nay possible loop feedback in the next step of signal amplification and amplified without the nowadays limit of necessary safeguard between the antennas (reception antenna and coverage antenna) reducing to half distance.

PRODUCT FEATURES

- **SSR Channeled repeater** for EGSM 900 MHz systems.
- Full-duplex configuration based on heterodyne structure over 70 MHz
- Output power up to **37 dBm** / 1 channel or 33 dBm / 2 channels.
- Bandwidth 200+200 Khz
- Gain from 75 to 90 dB, adjustable in steps of 1 dB with a Windows ® compatible software.
- Dynamic margins 65 dB
- Automatic Level Control loops to suppress unwanted disturbing radio signals
- **Repeaters** can be locally managed with a standard computer via RS-232 configuration port and a modem (9600 bauds)
- Windows interface for configuration all parameters: uplink and downlink gain, ALC loops, channels, alarms reports, monitoring in / out levels.
- Complete system: fixed base plus control software.
OMC 3.0 Full SNMP , HTTP Compatible to be integrated in a standard **NETWORK MANAGER**

ELECTRICAL SPECIFICATIONS AT Ta=25°C:

Parameters	Test Conditions	Downlink			Uplink		Units
Working Band	At -3 dB	925 - 960			880-915		MHz
BandWidth	At -3 dB	200			200		KHz
Parameters	Test Conditions	1 CH	2 CH	1 CH	2 CH	Units	
OutPut power	1 dB Compression	+37	+33	+37	+33	dBm	
Input sat. Level (1 carrier)	1 carrier	-10	-10	-10	-10	dBm	
Out of band gain (Ref: 0 dB)		± 1 MHz			± 2 MHz		
		Min	Typ	Max	Min	Typ	
Uplink			-40			-50	dB
Downlink			-40			-50	dB
Parameters	Minimum	Typical		Maximum		Units	
Uplink Gain (1 dB step, software configurable)	75	-		100		dB	
Downlink Gain (1 dB step, software configurable)	75	-		100		dB	
In Band Ripple		± 1.5				dB	
ALC window		65				dB	
Uplink Excitability		-104				dBm	
Downlink Excitability		-104				dBm	
Noise Factor		4				dB	
In/Out impedance		50				Ω	
Return losses		-12				dB	
Group Delay		3				μs	
Power supply AC levels	100	220		240		Vac	
Power consumption		80				W	

MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS:

RF connectors	N Female	Other options by demand
MTBF	100.000 Hours	CE ETSI FCC
Temperature range	-35°C to 55° C	IP 65
Package Dimensions (mm)	WxHxD	300x400x230 mm

¹ Factory defaults. Manufactured under ISO

