



**MODEL EGSMR7H-xxxT**



Great efficiency of coverage indoor applications.



PC repeater configuration software

### PRODUCT DESCRIPTION

RETEMSEA's family **EGSMR7H-xxx** repeaters is a bidirectional superheterodyne receiver / transmitter that has been designed to provide coverage for indoor and outdoor applications: buildings, parkings and tunnels, rural areas,...

This model has the advantage to cover the necessities of coverage in low and medium power with excellent rates for network planning.

RETEMSEA also has other Standard interfaces like opticfiber or radiating cable to specific applications

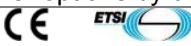
### PRODUCT FEATURES

- **Band Selective repeater** for EGSM 900 MHz Band systems.
- Full-duplex configuration based on heterodyne structure over 70 MHz
- Output power up to **33 dBm / 1 carrier, +20 dBm / 2 Carriers and +17 dBm / 4 Carriers.**
- Gain from **40 to 80 dB**, adjustable in steps of 1 dB with a Windows® compatible software.
- Dynamic margins 60 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	Center Frequency in the Range	925 - 960			880-915			MHz
BandWidth	At -3 dB	Customizable			Customizable			MHz
Parameters	Test Conditions	1 CH	2 CH	1 CH	2 CH	Units		
OutPut power	Under ETSI	+33	+20	+33	+20	dBm		
Input sat. Level (1 carrier)	1 carrier	-10	-10	-10	-10	dBm		
Out of band gain (Ref: <b>80 dB</b> )		± 1 MHz			± 2 MHz			
		Min	Typ	Max	Min	Typ	Max	
Uplink			-15			-45		dB
Downlink			-15			-45		dB
Parameters	Minimum	Typical		Maximum		Units		
Uplink Gain (1 dB step, software configurable)	40	-		80		dB		
Downlink Gain (1 dB step, software configurable)	40	-		80		dB		
In Band Ripple		± 1.5				dB		
ALC window		40				dB		
Uplink NF for 80dB		4				dBm		
DownLink NF for 80 dB		6				dBm		
In/Out impedance		50				Ω		
Return losses		-14				dB		
Group Delay		<2,5				μs		
Power supply AC levels	100	220		260		Vac		
Power consumption		45				W		

### MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS:

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

<sup>1</sup> Factory defaults. Manufactured under ISO 9002.

