



MODEL UMTS23H-XXXC2T
UMTS / 17 dBm 2 channels



[Quick deployment and cost effective coverage outdoor applications.](#)



[PC repeater configuration software](#)

PRODUCT DESCRIPTION

RETEMOSA's channeled repeater is a bidirectional superheterodyne receiver / transmitter that has been designed to provide coverage in outdoor areas with low levels of signal.

RETEMOSA also has other Standard interfaces like optic fiber or radiating cable to specific applications.

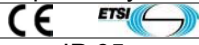
PRODUCT FEATURES

- **Channeled repeater** for UMTS (3G) systems.
- Full-duplex configuration based on heterodyne structure over 230 MHz
- Output power up to **20 dBm** / 1 channel or 17 dBm / 2 channels.
- Bandwidth 5 or 15 MHz.
- Gain from 45 to 90 dB, adjustable in steps of 1 dB with a Windows ® compatible software.
- Dynamic margins 65 Db
- Full **3GPP TS 25.143 V 6.0.0** – COMPLIANT
- Automatic Level Control loops to suppress unwanted disturbing radio signals
- Remotely controlled model can be managing with a standard computer and a modem (9600 bauds).
- Windows interface for configuration all parameters: uplink and downlink gain. ALC loops. channels.

ELECTRICAL SPECIFICATIONS AT Ta=25°C:

Parameters	Test Conditions	Downlink		Uplink		Units	
Work Band	At -3 dB	2170-2110		1920-1980		MHz	
BandWidth	At -3 dB	5 or 15		5 or 15		KHz	
Parameters	Test Conditions	1 CH	2 CH	1 CH	2 CH	Units	
OutPut power	1dB compression	+20	+17	+20	+17	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			-60		-70	-75	dB
Downlink			-60		-70	-75	dB
Parameters	Minimum	Typical		Maximum		Units	
Uplink Gain (1 dB step, software configurable)	45	80		82		dB	
Downlink Gain (1 dB step, software configurable)	45	80		82		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	
Temperature range	-35°C to 55° C	IP 65
Package Dimensions (mm)	WxHxD	400x420x220 mm

¹ Factory defaults. Manufactured under ISO 9002.

