

Easyboost

Home repeater



Small size, domestic repeater for enhancing indoors coverage.

No installation costs, works or engineering required at all. EasyBoost is a real Plug&Play solution, which can be put to work by the end user, with no technical skills.

Two model options for donor and coverage antennas:

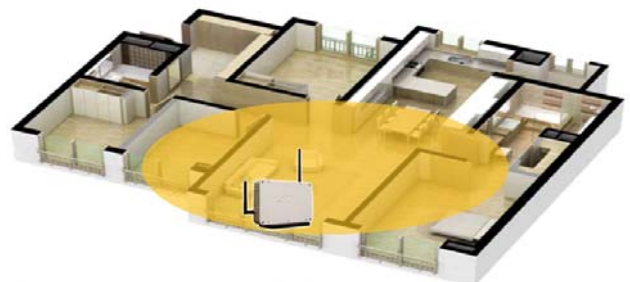
- External, omni-directional, supplied with the device.
- Built-in, directive, 70° beam-width.

EasyBoost avoids self interference by using RETEMSA's proprietary "Switched Technology" for interference cancellation. Gain values can reach up to 70 dB over the antenna isolation value.

Band-selective and Split-band repeater, available for 850, 900, 1800, 1900 and 2100 MHz bands. Able to work with 2G and 3G technologies.

Unnecessary noise contribution to the network is avoided by using proprietary SSP algorithms (Start on Signal Presence).

- Output power up to 23 dBm (Up-link, for 850 & 900 MHz bands – see table).
- Multiple programmable working band configurations (single band, split-band), by using digital filters.
- Gain is automatically adjusted by the device in order to optimize the link budget (Up and Down-link).
- Maximum gain > 95 dB.
- Dynamic margin of 70 dB.
- Mainly intended to operate at the cell's edge (CPICH/RSSI < -95 dBm), extending coverage with full GPRS and EDGE features. For 3G systems, HSDPA data speed > 500 kbps.



Specifications subject to change without notice.
Factory default values.
Manufactured under ISO 9002.



External, omnidirectional antennas



Built-in, directive antennas

Parameter	Unit	Downlink	Uplink
Working band			
<ul style="list-style-type: none"> Models for 850 MHz band Models for 900 MHz band Models for 1800 MHz band Models for 1900 MHz band Models for 2100 MHz band 	MHz	869 - 894 925 - 960 1805 - 1880 1930 - 1990 2110 - 2170	824 - 849 880 - 915 1710 - 1785 1850 - 1910 1920 - 1980
Bandwidth (Multiple single and split-band configurations, by using digital filters)			
	MHz	Factory programmable	Factory programmable
Maximum output power			
<ul style="list-style-type: none"> 850 and 900 MHz bands 1800 to 2100 MHz bands 	dBm	+18 +15	+23 +18
Input saturation level			
	dBm	- 20	- 20
Out-of-band gain (referred to 80 dB)			
<ul style="list-style-type: none"> at ± 1 MHz at ± 2 MHz at ± 2,7 MHz at ± 3,5 MHz 	dB	< 50 < 40 < 40 < 35	< 50 < 40 < 40 < 35
Maximum gain (Repeater) Measured at antenna connectors. Gain is automatically adjusted.			
	dB	95	95
Antenna gain			
<ul style="list-style-type: none"> External, omnidirectional Built-in, 70° beam-width: <ul style="list-style-type: none"> 850 and 900 MHz bands 1800 to 2100 MHz bands 	dB <i>i</i>	2 5 7	2 5 7
Noise figure			
	dB	< 8	< 8
In-band ripple			
	dB		± 1.5
ALC window			
	dB		70
In / Out impedance			
	Ω		50
Return loss			
	dB		- 12
Group delay			
	μs		< 4
Power supply (adapter, 110/220 V _{AC} to 9 V _{DC} , 3 A)			
	V _{AC}		110 / 220
Power consumption			
	W		< 10

Mechanical and environmental

MTBF	100.000 hours
Temperature range	0 to 45°C
Dimensions (mm)	
<ul style="list-style-type: none"> External antenna models Built-in antenna models 	Box: 191 x 121 x 35 Stand: 138 x 10 x 73 195 x 139 x 73.5