

Band Selective RF Repeater for the 900 MHz GSM Cellular Systems

The custom band repeater GR910-01 is an indoor bi-directional amplifier that offers an increase in signal strength in medium-sized rooms.

Key features:

- High output level +19dBm
- Customer specified frequency band
- Compact design for easy installation
- Uplink & Downlink gain is separately adjustable
- Automatic gain control
- Small dimensions and light weight

Application areas:

- Shopping centers
- Factories
- Hotels, offices
- Underground parking lots



General description of the product:

Repeaters are used in mobile communication network to provide signal coverage for an area with poor or no signal (e.g. blind spot)

Rantelon Ltd came across the insufficient coverage within buildings such as offices, parking lots, apartment buildings, shopping malls, subways and tunnels.

Our indoor repeater GR910-01 series can solve these problems by amplifying the available signal from an outdoor antenna into weak coverage area via indoor antenna or indoor delivery network with multiple antennas.

Technical specifications:

Parameter	Specification
Frequency range	Uplink: 890 ... 915MHz Downlink: 935 ... 960MHz
Bandwidth	7.8MHz (other bandwidths are optionally available)
Gain	75dB ±2dB
Manual gain adjust range	15dB
Automatic gain control	30dB
Downlink output power	+19dBm @ 2 carriers
Uplink output power	+19dBm @ 2 carriers
Spurious emission	-36dBm
Noise figure	6dB max
VSWR	1.8:1 [50Ω]
Power supply	DC 9V/2.6A
RF connector	N-Female
Operating temperature range	-20 ... +60 °C
Dimensions	120 x 190 x 60mm

Ordering information:

Model	Description
GR910-01/xNN	With RF output connector

x – service provider's identifier