

Band Selective RF Repeater for the 1800 MHz GSM Cellular Systems

The custom band repeater GR1800-01 is an indoor bi-directional amplifier that offers an increase in signal strength in medium-sized rooms.

Key features:

- Customer specified frequency band
- Compact design for easy installation
- Integrated antenna (or connector for indoor delivery network)
- Uplink & Downlink gain is separately adjustable
- Automatic gain control
- Low power consumption
- 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 GR1800-01 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: 1710-1785MHz Downlink: 1805-1880MHz
Bandwidth	15MHz (other bandwidths are optionally available)
Gain	60dB ±2dB
Manual gain adjust range	15dB
Automatic gain control	30dB
Downlink output power	+13dBm @ 2 carriers
Uplink output power	+13dBm @ 2 carriers
Spurious emission	-30dBm
Noise figure	4dB max
VSWR	1.8:1 [50Ω]
Power supply	DC 9V/1.0A
RF connector	N-Female (SMA optionally)
Operating temperature range	-20 ... +60 °C
Dimensions	120 x 190 x 60mm

Ordering information:

Model	Description
GR1800-01/xN	With integrated antenna
GR1800-01/xNN	With RF output connector

x – service provider's identifier