

Preliminary product Information: Rev 1A, Issue Nov 2015

**Custom band selective RF repeater GR2600 is an indoor bi-directional amplifier that offers an increase of signal strength in medium-sized rooms.**

## KEY FEATURES

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- LTE2600 support
- 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
- Status indicating LEDs

## APPLICATION AREAS

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



**Figure 1: Repeater GR2600 front view**

## PRODUCT DESCRIPTION

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Generally repeaters are used in mobile communication systems 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.

RF repeater GR2600 series can solve these problems by amplifying the available signal from an outdoor antenna into weak coverage area via built-in antenna or indoor delivery network with multiple antennas.

LEDs on the front panel indicate proper power supply, activity of automatic gain control circuits and other nodes of GR2600.

### TECHNICAL SPECIFICATIONS

Parameter	Specification
Frequency range*	UL: 2500-2570MHz & DL: 2620-2690MHz
Number of independent band-segments	Uplink: 1 / Downlink: 1
Band-segment properties*	Fixed by factory
Band-segment bandwidth*	20MHz (other bandwidth is available on order)
Max. gain	70dB ±2dB
Manual gain adjust range	10dB with step 1dB (for lower gain input LNA can be by-passed, in case of by-passed LNA maximum repeater gain is 55dB)
Automatic gain control	20dB
Downlink output power*	+18dBm @ one carrier
Uplink output power*	+18dBm @ one carrier
Noise figure	5.7dB
Return loss	10dB
Spurious emission	According to ETSI standards: < -36dBm up to 1GHz; < -30dBm above 1GHz
Supply voltage	DC: +9V..+33V
Current consumption	1A @ +9V
RF connector	N-Female (SMA optionally)
Operating temperature range	-20 ... +60 °C
Pure dimensions	120 x 190 x 60mm

\* Ask Rantelon for other parameters. See [www.rantelon.com](http://www.rantelon.com) for more information.

### ORDERING INFORMATION

Model	Description
GR2600-01/xN	With integrated coverage (indoor) antenna
GR2600-01/xNN	With RF output (coverage/indoor) connector

*Rantelon reserves the right to change the specification without notice.*