



# Provides instant GPS service indoors.



ROGER GPS repeater provides instant GPS service indoors. It extends the use of any GPS device inside buildings and locations that otherwise would be blocked from GPS signals.



### Car parks, car rental

Enables car GPS receivers to be online even when the car is parked where no satellite signal can be received.



### Emergency-, safety vehicles

Enables emergency vehicles to have their GPS receiver locked to satellites at all times. By this any cold start navigation gaps will be avoided.

### Stores, trade shows

Enable real time GPS demonstrations in stores or exhibitions. It is also ideal for GPS receiver service centres.



### Public transportation

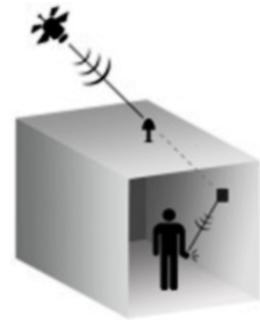
Enables use of GPS mobile phones and PDAs in public transportations such as buses, trains or passenger ships.



# Technical Specifications

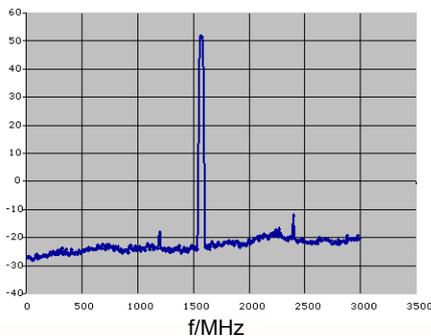


ROGER™ GPS repeater is a device that is used to relay GPS signals to places where they cannot normally be. The GPS repeater operates by receiving GPS satellite signals with an antenna located outside the building and reradiating them to the covered space. The GPS receiver can then 'see' the satellites indoors. The use of reradiated signals mean that the GPS receiver is tracking the current GPS status. This means that when the receiver is moved from the indoors to outside, the GPS receiver is instantly tracking the location, instead of time consuming acquisition of current GPS state. Please note that the GPS repeater cannot be used for navigating indoors, as the receiver will always indicate the location of the outdoor antenna instead of real position.

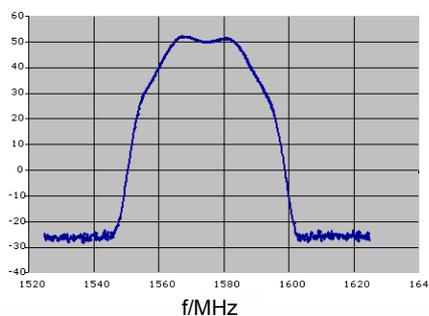


## Signal response

Wideband gain



Narrowband gain



### NOTE!:

Wideband gain. Attenuation outside the 1.575GHz passband is typically better than -60dB. Graph indicates lower attenuation due to measurement setup (spectrum analyzer noise floor).

## Technical data

Size:	110*143*28 mm
Weight:	165 g
Overall Gain:	> 40 db
Adjustable Gain:	0-40 db
Impedance:	50 Ohm
Input Connector:	SMA-female
Operating Temperature:	- 25 - + 40 °C
Power Supply:	9VDC/300mA
Indoor coverage radius:	10 - 15 m
Antenna Power Output:	+ 5 VDC, 100 mA
TX Antenna Gain:	max. +4dBd, RHCP polarization

### Operating license note

Note: GPS repeaters may require a license or they may not be used in your country. Check licensing conditions with the local (radio) authorities before operating the GPS repeater product.

In some countries the ROGER™ package contains instructions and the necessary forms to obtain an operating license from the local authorities.

## Other features

If the power supply is replaced, the output must be 12VDC regulated.

Automatic gain control	Output power limit - 60 dBm
Feedback oscillation suppression	Status / power LED
Manual gain control	Internal transmit antenna
CE-certified	

### Products article codes are:

(GPSR-BP) ROGER™ GPS Repeater Package  
(GPSR-1) GPS Repeater, including power supply

## ROGER™ GPS Repeater Package (GPSR-BP) includes:

1. ROGER™ GPS repeater unit
2. Outdoor antenna for receiving GPS signals
3. Power supply
4. RF antenna cable, 19,5 m
5. Installation manual

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