



VAS-RRKIT2

GPS L1 Signal re-radiating system for reception of GPS satellite signals in door



The VAS-RRKIT2 is a complete GPS L1 re-radiating system to get full satellite coverage indoor. It allows an unlimited number of GPS receiver the reception of GPS signals within a closed environment (e.g. buildings), while only the active antenna of the VAS-RRKIT2 is located outside.

The VAS-RRKIT2 consists of

- an active antenna,
- a re-radiating antenna system with amplifiers and a passive re-radiating antenna,
- international switching power supply with different adapters (100-240 Volt)



The GPS signal from the outside antenna is amplified and radiated out the re-radiating antenna. The kit is designed as plug and play hardware and can be installed temporarily or permanent. The electronic box has two adjustable mounting brackets for optional wall mounting.

The VAS-RRKIT2 can support any GPS receiver that use GPS L1 frequency band. Due to the adjustable gain, the three stage amplifier is able to provide good signal reception from several centimetres up to 50 meter (local noise dependent).

The VAS-RRKIT2 can be used for laboratory, production, hanger, office and timing applications where a GPS coverage is not available.

Specifications:

External outdoor antenna, TA=25°C

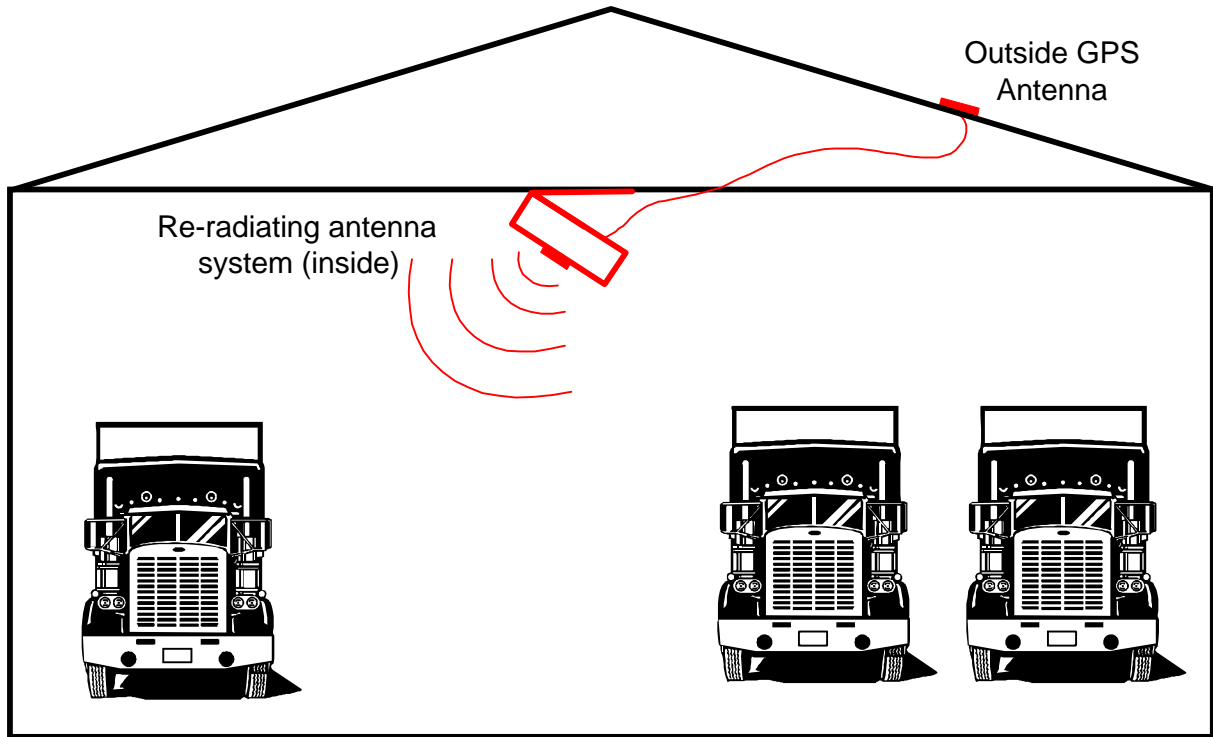
Frequency	1575 MHz
Bandwith	45 MHz
Polarization	RHCP
Dimensions	50 x 43 x 18 mm
RG174 cable length	6 m
Colour	Grey
Weight	40 grams
Operating temperature	-40 to +85 °C

Re-radiating system, TA=25°C

Frequency	1575 MHz
Bandwith	18 MHz
Polarization	RHCP
Antenna element	Patch
Overall Gain	Adjustable from 20 to 75 dB
DC input	9-15 Volt
Power consumption	100mA max.
Dimensions	130 x 105 x 40 mm, without mounting brackets
Colour	Black and blue
Weight	450 grams
Operating temperature	-40 to +85 °C

VECTRONIC Aerospace GmbH reserves the right to change the specifications without notice at any time

IMPORTANT: The re-radiating system must not have a line of sight to the outdoor antenna, to avoid feedback of the reflected RF signal.



Typical hangar application