



GPS Repeater Solution

Mini GNSS L1/G1/E1 Repeater Kit



Features

- GNSS Repeater Kit support for L1 GPS, G1 Glonass, E1 Galileo and Beidou B1
- Complete solution for easy install including a Mini GNSS smart module, antenna and cabling
- Supplied with outdoor receive antenna and dual indoor transmit antenna
- Supplied with triple LMR240 10Meter cables

Product Description

Global Foxcom's New **Mini GNSS Repeater Kit** is a complete Ready-to-Install repeater solution for re-transmitting GNSS signals indoor. The kit is based on a Mini GNSS module equipped for top-notch RF performance.

The Mini GNSS repeater module is equipped with a calibrated RF Gain Dip switch array for easy gain adjustment and optimal coverage, a band pass filter for blocking unwanted off-air signals, antenna monitoring and an over gain/oscillation limiter that prevents the risk of misalignment.

The Single Zone kit includes an outdoor antenna to pick up GNSS signals and an indoor antenna that retransmits the signals inside the facility. The Dual Zone kit includes one outside antenna and two indoor antennas.

Two types of kits are available. One kit comes with a standard indoor Omni antenna suitable for standard ceiling heights in offices, manufacturing and emergency facilities. The other kit is available with the Global Foxcom proprietary directional RHCP antenna that is optimal for high ceiling applications typical for aircraft maintenance hangars, railroad stations and other facilities that require a way to concentrate the signal in a specific location from a long distance.

The kit provides a GNSS coverage solution for up to two zones, and a total coverage of up to 1500m².

The coupling port enables a Daisy chain of additional modules and provides unlimited coverage areas.

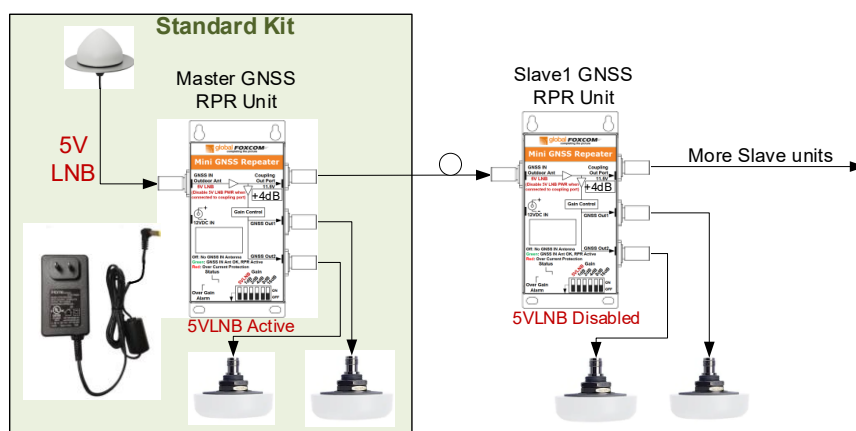
The Mini GNSS Kit includes the following items:

Kit Type	Repeater Module	Antenna	Cables
Single zone	1 x Mini GNSS	1 x Outdoor L1/G1/E1 RX, 1 Omni indoor TX	2 x 10Meter LMR240
Dual zone	1 x Mini GNSS	1 x Outdoor L1/G1/E1 RX, 2 Omni indoor TX with articulating L1 mount	3 x 10Meter LMR240
Single zone hangar	1 x Mini GNSS	1 x Outdoor L1/G1/E1 RX, 1 Directional indoor TX	2 x 10Meter LMR240
Dual zone hangar	1 x Mini GNSS	1 x Outdoor L1/G1/E1 RX, 2 Directional indoor TX	3 x 10Meter LMR240

Both Kits include an AC2DC power adapter.

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Example: Daisy Chain Dual Zone Install



General Kit Specifications

GNSS Repeater System	
RF Specification	
System frequency range	1164–1610MHz (Filtered)
Satellite support	GPS L1, Glonass G1, Galileo E1, Beidou B1
System gain	28-58dB (Calibrated, 1dB steps)
Supported indoor antenna	2
Outdoor antenna type	Global Foxcom RX L1/G1/E1
Indoor antenna type support	GF Omni TX L1/G1/E1 or Foxcom Directional TX L1/G1/E1
Supplied antenna cable/length/type	3 x LMR240, 10Meter
Electrical Specification	
Operating voltage/current consumption	12VDC/0.3A
Antenna RX antenna monitoring	Open/Over Current
Coupling port voltage	12VDC $\pm$ 5V
Physical Specifications	
Operating temperature	-10°C – 65°C
Storage temperature	-40°C – 80°C
Humidity	95% @ 35°C Non-condensing
RF connectors	TNC Female

Ordering Information

Model Number	Description
GPS-R-U-5-4-6	Dual Zone L1 GNSS Kit, includes 1 x Mini GNSS unit, 3 x 10Meter RF Cabling, 1 x Outdoor antenna, 2 x Indoor antenna, EU PS adapter
GPS-R-U-5-4-7	Dual Zone L1 GNSS Kit, includes 1 x Mini GNSS unit, 3 x 10Meter RF Cabling, 1 x Outdoor antenna, 2 x Indoor antenna, US PS adapter
GPS-R-U-4-4-6	Dual Zone L1 GNSS Kit, includes 1 x Mini GNSS unit, 3 x 10Meter RF Cabling, 1 x Outdoor antenna, 2 x Indoor Directional antenna, EU PS Adapter
GPS-R-U-4-4-7	Dual Zone L1 GNSS Kit, includes 1 x Mini GNSS unit, 3 x 10Meter RF Cabling, 1 x Outdoor antenna, 2 x Indoor Directional antenna, US PS adapter