Portable Military GNSS Repeater

High Performance, rugged, self-contained solution for rapid deployment

Introduction

Chronos offers a fully customizable, portable, L1/L2 GNSS / GPS Repeater solution which enables the GPS signal to be received inside military environments such as aircraft hangars, training facilities and portable shelters in less than 20 minutes.

Rapid Deployment

Designed for rapid deployment in a variety of military environments, the retransmission kit comprises two adjustable height tripods, a single active (receive) antenna, a passive (repeat) antenna, and military grade GLI-Echo II GPS retransmission controller from GPS Source.

Features

- Set up time less than 20 minutes
- L1/L2 GPS coverage up to 30m
- Designed for rapid deployment in a variety of military environments
- Active high performance GPS L1/L2 antenna with 33 dB Gain
- Window mount suction pad suitable for Chinook
- Internal reradiating variable gain amplifier with LCD display to optimise operating RF power level
- Internal passive L1/L2 GPS antenna
- RF cables varying in length to suit requirements
- Ruggedized case weighing 5 kilos
- Universal AC power supply
- Custom solutions available
- Chronos installation & support services available

DATASHEET

GPS World from Chronos Technology

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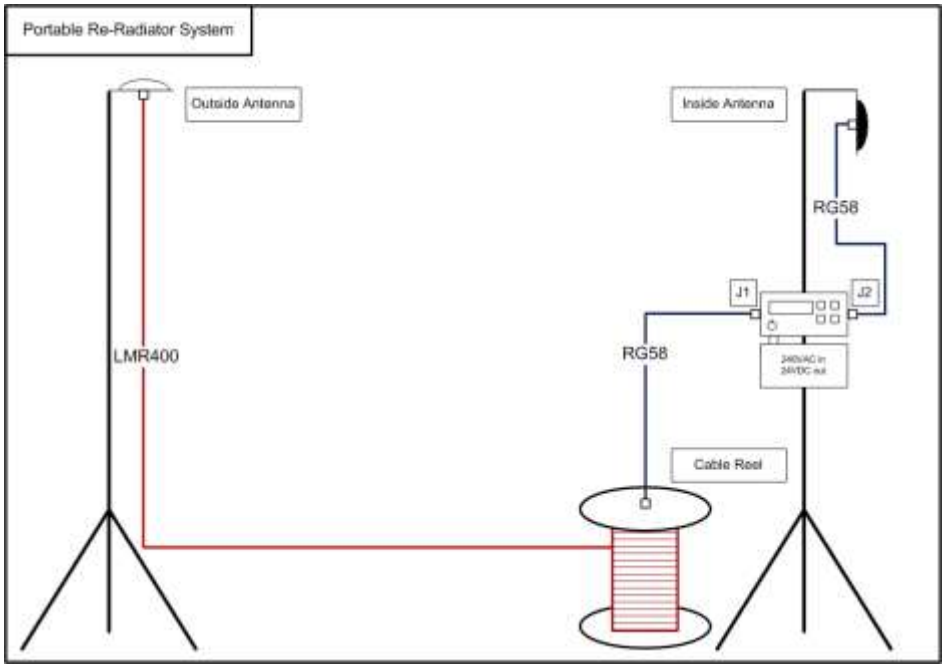
Specification:

Operating Frequency	1575 MHz L1 Band 1227 MHz L2 Band
Bandwidth	20 MHz
Active Noise Antenna Noise Figure	2.75 dB typ
Impedance	50Ω
Active Antenna Gain	33 dB min
Variable Gain	-3 to +23 dB
Passive Reradiating Antenna Gain	+3 dBic
Polarization of Passive Antenna	RHCP
Power Supply Input	90—260 V AC
RF Connectors	N Female
RF Cable	5m RG58 + 10m LMR400 Extraflex (custom lengths available)
Operating Temperature	-55°C to +85°C
Altitude	70,000 ft
Vibration	> 30Gs
Total Weight	15 kg



Bringing the GPS signal inside enables ongoing installation, testing and troubleshooting of aircraft GPS navigation systems while remaining inside the hangar. Maintenance delays due to inclement weather or the placement of other aircraft is eliminated. Maintenance efficiencies are immediately achieved, as accessibility to work on the GPS navigation is more convenient. Personnel and assets are protected and time and fuel are saved.