



Rojone Pty. Limited

**Please call for more
information on our
range of products**

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**PORTABLE
L1/L2 GPS
REPEATER SYSTEM**

Rojone Pty. Limited

PORTABLE, L1/L2 GPS REPEATER SYSTEM

Rojone Pty. Limited is an Australian designer & manufacturer of specialized RF, GPS & telecommunications products in addition to manufacturing our own unique voice interactive vehicle tracking system.

Following the successful global marketing of our L1 GPS Repeater kit, Rojone has developed a high performance L1/L2 Portable GPS repeater system for the Australian Air force that was successfully installed and commissioned in 2007.

Proudly Rojone announces the release of its compact L1/L2 Portable GPS Repeater System.

Self contained, weighing no more than 38 kgs, the purpose built, IP65 rated military case contains all the system Components to provide quick & reliable L1/L2 GPS coverage for up to 15 meters in radius.

Designed for rapid deployment, the system can be set up in under 20 minutes to provide L1/L2 GPS coverage to a variety of military & civilian vehicles including aircraft while under cover or inside hangars.

The ROJ-140 system features:

- The highly sensitive active receive antenna capable of tracking satellites down to 5 degrees elevation
- High performance RF amplifiers with high rejection filters for both L1 & L2
- Efficient TX Antenna, over 100dB RF blocking cellular, VHF & UHF radio frequencies
- Battery or fixed power operation with auto power supply detection & low battery alarm
- Auto isolation detection circuit to speed up installation & maintain high performance
- Rapid deployment < 20 minutes to set up
- Ruggedized IP65 military case, light weight only 38 Kgs

Rojone also offers L1/L2 GPS fixed installation repeater system. Please contact us for more information.
www.rojone.com.au

Specification for ROJ-140 Portable L1/L2 High Performance GPS Repeater System NSN: 5825-66-156-0386



Operating Frequency	1.53 – 1.58 GHz L1 Band 1.22 – 1.23 GHz L2 Band
Polarization	RHC (Right Hand Circular)
Noise figure of LNA	< 0.7dB (0.5dB typical) @ 25 Degrees C
Antenna Coverage	360 degrees – Azimuth 5-90 degrees - Elevation
Filtering	>100dB for GSM/CDMA and VHF UHF radios
Power Supply	DC 8 – 48v or AC 100-260V / 10VA max.
Internal Batteries	12V – 20AH Non rechargeable
Operating time on Batteries	200 Hours Continuous typical
Operating Temp	-40 to + 60C° (Limited by Batteries)
Storage Temp	-40 to + 80C°
Humidity	100%
RF Connectors	N-Female
Rx Cable	Low Loss LMR-240 / 50m
Tx Cable	Low Loss LMR-240 / 25m
Total Weight	38 kg
Size	680 W x 660 H x 480 D mm approx.
Environment	IP-65 for locked Military case