



FIXED L1/L2 GPS REPEATER SYSTEM



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information on our
range of products**

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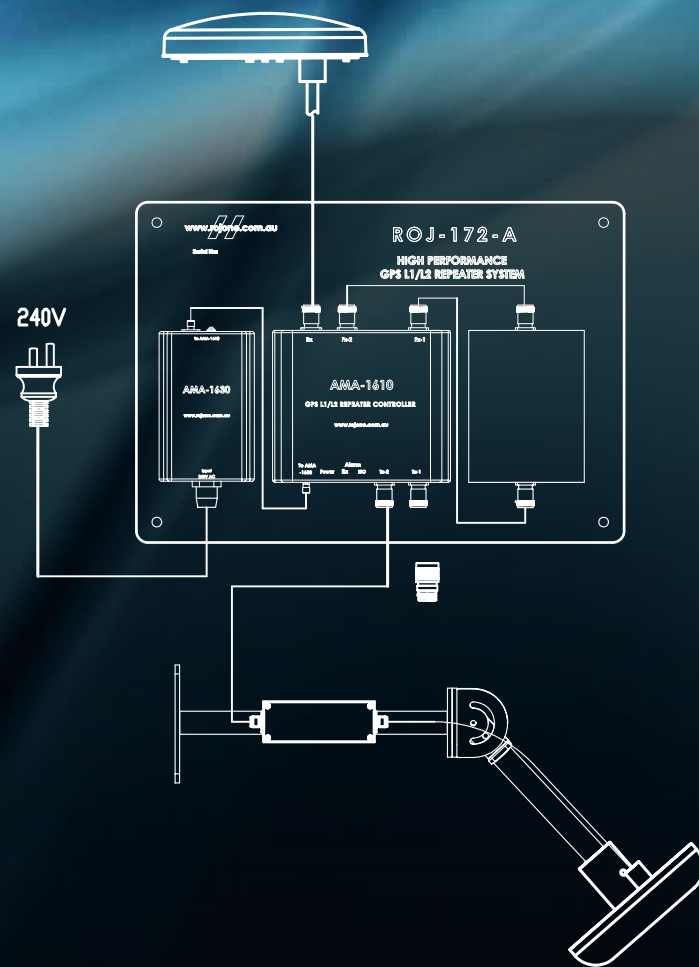
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PTY. LTD.

FIXED, L1/L2 GPS REPEATER SYSTEM



To provide adequate GPS coverage and reduce the mission response time for aircraft parked in the hangar or the shelter, Rojone has developed a series of high performance GPS L1/L2 band repeaters for the Australian Air Force since 2003. Rojone's GPS repeater has reduced the mission response time by up to 90%.

ROJ-172A is a 3rd generation high performance GPS L1/L2 repeater, designed for professional and Defence applications. ROJ-172A provides reliable, high accuracy GPS L1/L2 band signals for GPS receivers used indoors or under shelters. It is safe for personnel and the weapon systems on Military aircraft, when used in the aircraft shelter. ROJ-172A will work reliably under extremely harsh EM environments, such as Military Bases where Radars and high power transmitters are installed.

ROJ-172A will re-transmit high quality, high accuracy GPS L1/L2 band signals from the satellites with elevation greater than 5 degrees. No RF spurious will be generated by ROJ-172A even under extreme conditions. ROJ-172A is developed based on the previous models used by RAAF bases around Australia.

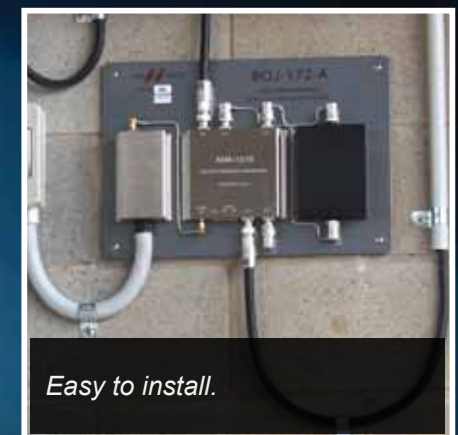
FEATURES

- Field-proven high performance system
- High sensitivity RX design
- Super high blocking performance for airbase applications
- Good radiation pattern
- No interruption to GPS receivers at 5m away from the hangar
- Safe for personnel and weapon systems in the hangar or shelter
- Easy installation

Specification for ROJ-172A

L1/L2 High Performance Fixed Dual Band GPS Repeater System

Operating Frequency	1.53 – 1.58 GHz L1 Band	Operating Temp	- 40 to + 80°C
	1.22 - 1.23 GHz L2 Band	Storage Temp	- 40 to + 90°C
Polarization	RHC (Right Hand Circular)	Humidity	100%
Noise figure of LNA	< 0.7dB (0.5dB typical) @ 25°C	RF Cables & Connectors	Purchased separately
Antenna Coverage	360 degrees – Azimuth	RF Connectors	N Female
	5-90 degrees - Elevation	Environment	IP-65 housing and antennas
Filtering Radios	> 100dB for GSM/CDMA and VHF UHF	Kit Contains	Passive and Active Antennas & Repeater Module
Power Supply	AC 100-260V / 10VA max (specify plug & voltage)	Total Weight	Approx 10 Kg (plus brackets)
	(DC Version available)		



Easy to install.



With L1/L2 GPS Repeater, system lock-in time is reduced to 10% of original open sky cold-start time.



Satellites with elevation greater than 5 degrees will be tracked.



Excellent indoor coverage, minimum outdoor interference (<5m outside hangar).