



LOW FREQUENCY RFID

125 KHz Reader with TTL Interface

Product Datasheet

MPN: - A-LRO1

INTRODUCTION

This document describes the functionality of the contactless reader **A-LRO1 125 KHz** modules. It includes the functional and electrical specification.

The **A-LRO1** is a highly integrated reader with 125 KHz in built antenna. The **A-LRO1** reader supports EM-marine Tag (125 KHz).The **A-LRO1** internal transmitter part is able to drive a reader antenna designed to communicate with EM-marine (125 KHz) cards and transponders without additional active circuitry. **A-LRO1** RFID Reader features an outstanding modulation and demodulation algorithm to serve effortless RF communication.

Various interfaces are Available:

- ✓ RS-485 interface (**A-LRO4**)
- ✓ RS-232 interface (**A-LRO2**)

FEATURES

- ✓ Support EM-marine Tag (125 KHz)
- ✓ Support read only feature
- ✓ Fast data transfer contactless communication
- ✓ Secure-Encrypted Manchester Decoding
- ✓ HEXA Decimal output
- ✓ Typical operating distance in reader up to 35mm depending on the antenna size and tuning.
- ✓ In built 125KHz Antenna

SPECIFICATION	
Country of origin	India
Operating Frequency	125 KHz
Baud Rate Support	9600
Reader Distance	Up to 30mm
Interface	TTL/UART
Card/ Tag Supported	EM-marine 125KHZ
Operating Voltage	5V
Operating Current	40mA @5V
Operating Temperature	0°C to 65°C
Storage Temperature	0°C to 85°C
Relative Humidity	5% - 95% (non- condensing)
Tag Detection	Automatic

MECHANICAL DIMENSIONS

Antenna	46 mm x 43 mm
PCB	49mm x 28 mm

ORDERING INFORMATION

MPN	Description
A-LRO1	RFID 125 KHz based read only module with TTL/UART Interface

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