



- Support EM-marine Tag (125 KHz)
- Data transfer rate 9600 bit/s
- 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

Introduction

This document describes the functionality of the contactless reader AT-312 is 125 KHz modules. It includes the functional and electrical specification. The AT-312 is a highly integrated reader with 125 KHz in built antenna. The AT-312 reader supports EM marine Tag (125 KHz). The AT-312 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. AT-312 RFID Reader features an outstanding modulation and demodulation algorithm to serve effortless RF communication. Various interfaces are Available: 1. RS-485 interface (AT-312) 2. RS-232 interface (AT-312).

Specifications

General

Operating Frequency	125 KHz
Baud Rate Support	9600 Reading Distance 1mm to 40mm
Reading Distance	Up to 30mm
Interface	TTL/UART
Card/ Tag Supported	EM-4100 Tags, Passive Tags
Tag Detection	Automatic
Reader/Write Support	Read only
Output Format	HEX
Antenna	Built-in

Physical Characteristics

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

Environment

Operating Temperature	0°C to 60°C
Relative Humidity	5 % - 95% (non-condensing)
Standards and Certifications	RoHS

Power Parameters

Operating Current	40mA
Operating Voltage	5V

Order Information

Part No.	Description
AT-312	Read only module with TTL/UART Interface