

Product Data Sheet



Eureka 125kHz RFID Starter Kit - RS232 Reader Module

Product Overview

The Eureka 125kHz RFID starter kit - reader module version is a complete starter kit supplied with a pcb reader, cables, tags, software and manuals. This kit provides an ideal low cost introduction into low frequency (LF) RFID.

The starter kit includes a close proximity pcb reader module for reading and writing to LF passive tags. The reader module is ideal for OEM applications, pilots and trials.

The reader supports Unique read only (R/O) and Hitag-S read write (R/W) tags with typical read ranges of between 2 to 5cm using the supplied integral antenna. The reader can write to all hitag-s variants of R/W tags with the write range being typically one third of available read range.

A selection of supported LF tags are included in the kit, which include both read only and read write options.

For specific applications different antenna can be supplied to offer greater read range and positioning flexibility.

Features

The Eureka 125kHz reader module has hardware selectable TTL, RS232 and RS485 (2-Wire) communication interface options with software configurable communication parameters including the protocol and operating modes.

Firmware updates are possible via a supplied bootloader included with the evaluation software. The evaluation software allows full control of the reader commands and configuration.

The reader operates using the supplied 12V DC PSU and consumes <100mA while operating.

An open drain output allows the option to control an external device such as a sounder or led.

Subject to minimum order quantities and design specifications, Avonwood can manufacture an OEM version of the Eureka 125kHz reader module to suit your application.

Reader

RF Frequency	125kHz
Supported Transponders	Unique (R/O) Hitag-S 32 (R/O) Hitag-S 256 (R/W) Hitag-S 2048 (R/W)
Read Range*	Typically 2 to 5cm (with supplied integral antenna)
Interface Options	TTL, RS232, RS485 half duplex 2 wire
Communication Parameters	Software Configurable
I/O	
Indicator LEDs	Operating Mode Transponder Functions
Output	Open Drain (e.g. Sounder or LED)
Physical	
Size	65mm x 65mm
Weight	25g
Electrical	
Supply Voltage	12V DC
Current Consumption	<100mA

* Read range for tags are typical only and depend on tag type, size, orientation, antenna and environment.

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