

Product Data Sheet



Eureka 13.56MHz RFID Starter Kit - RS232 Reader Module

Product Overview

The Eureka 13.56MHz 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 high frequency (HF) RFID.

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

The reader supports ISO-15693 tags with typical read ranges of between 2 to 5cm with integral antenna. The reader can write to ISO-15693 tags with the write range being typically one third of available read range. A selection of supported HF RFID tags are included in the kit.

Features

The Eureka 13.56MHz 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 <250mA 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 13.56MHz reader module to suit your application.

Reader

RF Frequency 13.565MHz
Supported Transponders (Tags) ISO-15693

Read Range* Typically 2 to 5cm (internal 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 <250mA

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

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