

Product Data Sheet



Eureka - 125kHz RFID Reader Module

Product Overview

The Eureka 125kHz reader module is a low frequency (LF) low power short range RFID reader which provides proximity reading and writing of LF tags.

The reader supports Unique read only (R/O) and Hitag-s read write (R/W) tags and offers typically up to 5cm of read range using the supplied antenna. Other LF protocols may be available by request and firmware upgrade.

The 125kHz RFID reader module provides an ideal low cost solution for OEM applications, product integration, RFID pilots and trials.

- Low Frequency RFID
- Low Cost Device
- Small Form Factor
- PCB Only
- Product Integration
- Firmware Upgrades
- OEM Options

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

Evaluation software is provided with the reader to display tag data, control reader commands, configure reader options and enable firmware updates.

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

OEM and product integrated versions of the Eureka 125kHz reader module can be manufactured to meet specific design specifications.

For further information please feel free to contact us on 01202 868000 to discuss your enquiry.

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 antenna)
Interface Options	TTL, RS232, RS485 half duplex 2 wire
Communication Parameters	Software Configurable

I/O

Indicator LEDs	Operating Mode Transponder Functions Open Drain (e.g. Sounder or LED)
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Output

Physical

Size	65mm x 65mm
Weight	25g

Electrical

Supply Voltage	5V or 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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