

## Product Data Sheet



### Eureka - COMMS Interface with 125kHz RFID Module

#### Product Overview

The Eureka comms interface with 125kHz reader module is a fully integrated low frequency (LF) low power short range RFID reader.

The interface board provides multiple communication options for the integrated 125kHz LF reader module that fits directly on the interface board. Communication options include RS232, RS485 half duplex 2 wire, RS485 full duplex 4 wire, USB and Ethernet TCP/IP.

The 125kHz RFID reader module provides proximity reading and writing of LF tags and supports Unique read only (R/O) and Hitag-s read write (R/W) tags and offers typically up to 5cm of range using the supplied antenna. Other LF protocols may be available by request and firmware upgrade.

The comms interface provides an ideal low cost RFID solution for OEM applications, multiple read points, networked rfid systems, rfid pilots and trials.

- Low Frequency RFID
- Communication Options
- Multiple Read Points
- PCB Only
- Firmware Upgrades
- OEM Options

The Eureka comms interface with 125kHz reader module has excellent user features including hardware selectable communication interface, 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.

Build options and OEM versions of the Eureka comms interface with 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 integral antenna)
Comms Interface Options	RS232, RS485 half duplex 2 wire, RS485 full duplex 4 wire, USB & Ethernet TCP/IP.
Communication Parameters	Software Configurable
I/O	
Indicator LEDs	Operating Mode Transponder Functions
Output	Open Drain (e.g. Sounder or LED)
Physical	
Size	Standard 160mm x 100mm (Eurocard) Extended 174mm x 100mm
Electrical	
Supply Voltage	9V to 36V DC (12V DC Nominal)
Current Consumption	<500mA

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

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