

## Product Data Sheet



### Eureka UHF Active RFID Starter Kit - Wakeup & Transmit

#### Product Overview

The Eureka UHF active RFID starter kit - wakeup version is a complete starter kit supplied with an RF reader, wakeup units, cables, tags, software and manuals. This kit provides an ideal low cost introduction into ultra high frequency (UHF) active RFID.

#### Reader

The Eureka UHF Active Tag Reader is a self contained receiver unit with an 868MHz PCB dipole antenna that detects and decodes Eureka-iD tags. The reader unit communicates via TCP/IP over a standard LAN connection. The unit has a 12V DC power supply.

Reader configuration can be setup through software and firmware control.

The reader unit can detect transmitting Eureka tags up to 100 metres away in free air but will vary depending on environment and factors that effect RF.

#### Wakeup Unit

The wakeup unit is a stand alone unit used to activate the Eureka tags to enable them to send their data to the reader. The unit with an integral antenna produces a controllable RF field that activates the tag when it enters the field. Typically this can provide up to 5m range.

The Eureka UHF active RFID starter kit offers a cost effective long range tagging system for a wide variety of applications.

#### Applications

Ideal for personnel and asset identification, tracking, security and access control applications.

- Vehicle Identification
- Industrial controls
- Access Control
- Personnel Identification
- Evacuation Systems
- Asset Identification

#### Reader

Frequency	868 MHz
Demodulation	FSK
Sensitivity	-100dB
Range	Up to 100m*

#### Comms Interface

LAN	10/100Base-T Ethernet via RJ45
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#### Relay Output

Contacts	SPCO
Rating	1A @ 24VDC

#### Input

Object Sensor	Yes
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#### Environmental

Operating Temperature	-10°C to +50°C
Storage Temperature	-10°C to +50°C
Humidity	5% to 90% (non condensing)

#### Physical

Size	200mm x 210mm x 48mm
Weight	0.7kg
Colour	White (RAL 9002)
Material	ABS (UL 94 HB)

#### Electrical

Supply Voltage	12V DC (500mA Regulated PSU)
Power Consumption	<10W

#### Wakeup Unit

Frequency	125kHz
Supply Voltage	12V DC (500mA Regulated PSU)
Size	120mm x 200mm x 58mm
Range	Typically 5m*

#### Tags

Eureka Asset Tag	Wakeup
Eureka Personnel Tag	Wakeup

\*Dependent on environment and factors that effect RF

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Part No: EURIDK4917

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