Product
Data Sheet

Eureka UHF Passive RFID Starter Kit - USB Desktop Reader

Product Overview
The Eureka UHF passive RFID starter kit - USB desktop reader version is a complete starter kit supplied with a reader unit, cables, tags, software and manuals. This kit provides an ideal low cost introduction into ultra high frequency (UHF) RFID.

The reader is a multi-protocol fully integrated UHF low power short range compact desktop reader.

The reader provides proximity reading and writing of tags and labels and supports ISO 18000-6B, Philips UCODE EPC 1.19 and EPC Class1 Gen2. Other UHF protocols may be available by firmware upgrade.

The reader houses an integrated antenna and a USB interface for PC connection. The device is USB powered and designed to operate as a stand alone PC peripheral communicating via a USB serial port.

Applications
The reader has been designed specifically to be used in desktop applications including:

• Point of sale
• Simple tag reading and programming
• Document identification
• Item inventory management
• Access control

Reader

Frequency	869.525 MHz (ETSI EN 300 220)
RF Power	60mW ERP @ 5V
Antenna	Integrated Linear polarised (3.0 dBi @870MHz) - ETSI version
Frequency Tolerance	± 10 ppm over the entire temperature range
Number of Channel	Single channel
Standard compliance	ISO 18000-6B Philips UCODE EPC 1.19 EPC Class1 Gen2

I/O

Digital	Five I/O lines 3.3V out, 5 V tolerant
USB Port	USB B female connector Bus powered USB 2.0 device Must be connected to High-power Port (500 mA @ VBUS)
LED display	Red - Power Green - Identify Tag Yellow - USB communication

Physical

Dimensions	180mm x 130mm x 97 mm
Weight	500 g

Electrical

Power	5V DC bus powered (USB) Max 250 mA

Environmental

Operating Temp.	-20 ˚C to 60 ˚C

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