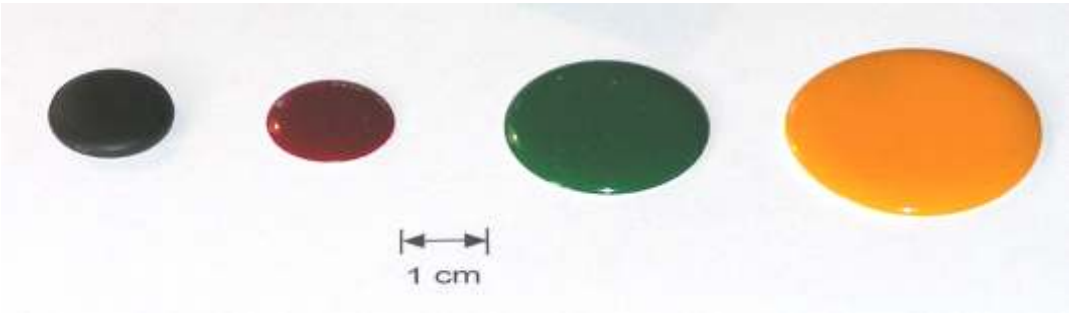
ib technology

Micro iTAG Reader Module

(Ultra low-power RFID reader module with Integrated Antenna)

- **Contactless alternative to Dallas/Maxim iBUTTON system**[*1]
- **Based on secure "MIFARE" RFID technology**[*2]
- **Complete ISO14443A (13.56MHz) Read/write system**
- **24-pin DIP package size with integrated antenna**
- **Ultra low-power, <100μA (micro Amps) active @ 5 volts**
- **Automatic auxiliary outputs (serial number and iTAG data)**

24 pin DIL package (32 mm x 18 mm x 5 mm)
Integrated antenna simplifies design-in and allows use in any system.



Examples of RFID iTAG "BUTTONS" each with a unique serial number
and 1k Bytes of secure password locked memory segments.

In response to the worldwide demand for contactless smart card and Tag security systems, the Micro iTAG Reader module and iTAG BUTTONS provide a simple and cost effective means of integrating Identification, data storage or access control to any application. Similar in concept to the Dallas/Maxim iBUTTON[*1] contact based identification; this system brings world-leading contactless RFID technology to this market. The iTAG BUTTONS are available in a range of sizes and colours (many other package types are available on request such as wrist bands, key fobs, labels, cards). The iTAG BUTTONS each have a unique 32-bit serial number and 1k Bytes of read/write memory divided into 16 password locked memory segments. They are completely sealed passive devices (no battery) and effectively last a lifetime. The iTAG BUTTON epoxy material resists high temperature and solvent or corrosive chemicals making this a very robust solution for any real-world application.

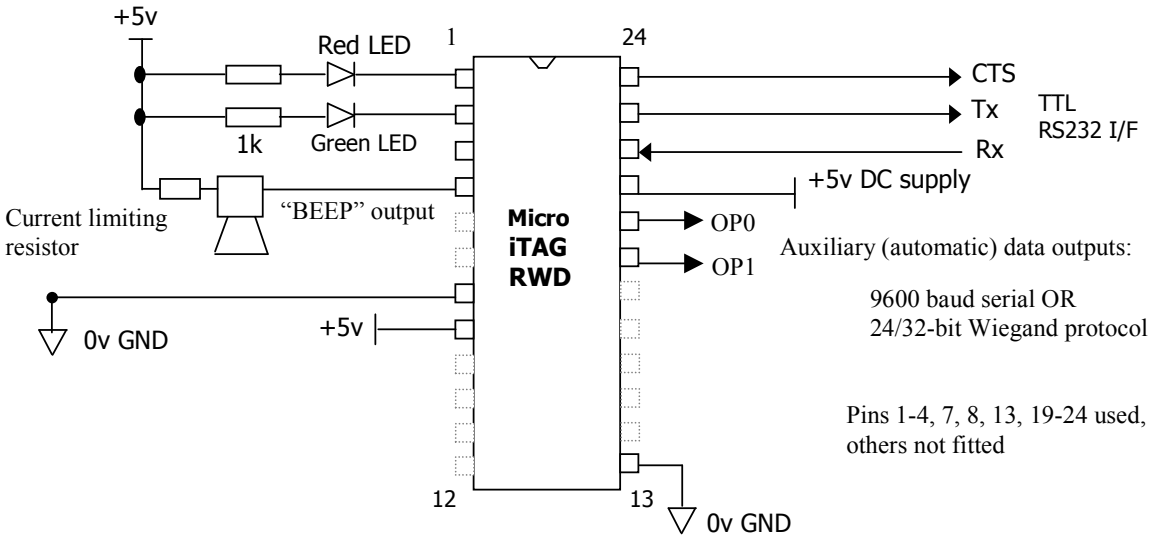
The Micro iTAG Reader module itself only requires a 5 volt supply to be a complete read/write system (with integrated antenna), its unique ultra low-power design allows it to be used in battery applications, consuming an average of less than 100 micro Amps even when fully active.

[*1] iBUTTON is a trademark of Dallas/Maxim Semiconductor
[*2] MIFARE is a trademark of Philips/NXP Semiconductor

Auxiliary outputs can be used to automatically output the iTAG BUTTON serial number (or memory data) as serial or Weigand data protocol. Operating range with iTAG BUTTONS is typically up to 2 cm.
In addition the Micro iTAG Reader has a second serial interface that can be interfaced to a host computer or microcontroller. A few simple commands can be used to read and write data to the iTAG BUTTONS.and control all the system passwords and other features.

The Micro iTAG Reader can be designed- into any system and does not require any specialist design skills. Additional outputs are available to drive LEDs and even a programmable output that can be used to drive a BEEPER or any other auxiliary equipment when an iTAG BUTTON is present.

Typical Micro iTAG Reader configuration



Low-power Micro iTAG Reader power consumption is approximately 0.1 % (one thousandth) of conventional RFID reader systems.

Examples of other iTAG BUTTONS, cards, key fobs, wrist bands etc

Demonstration kits are available to allow rapid evaluation of the Micro iTAG Reader and iTAG BUTTONS with Windows applications, data sheets and application notes for quick-time-to-market development.

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