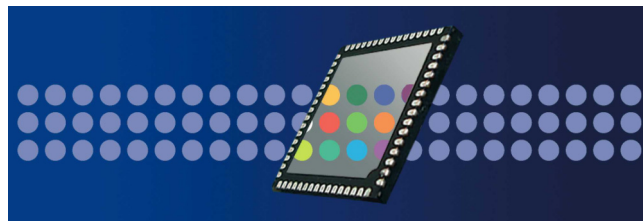


### ISO 14443 Reader Development Kit for Battery-Powered RFID Readers

The R14AB kit is intended as an extremely low-power ISO 14443A/B RFID reader development system. It also supports NFCIP-1 106-kbps active communication and Mifare® Ultralight 4-bit ACK/NACK reply. Other standards and custom protocols are possible via the transparent mode.

#### Content of Kit

- PCB with R14AB and a PIC microcontroller
- CD-ROM with demo application (including Gerber files), documentation, examples, firm- and software (including source code)
- Various tags (ISO 14443)
- USB Cable
- Power adaptor



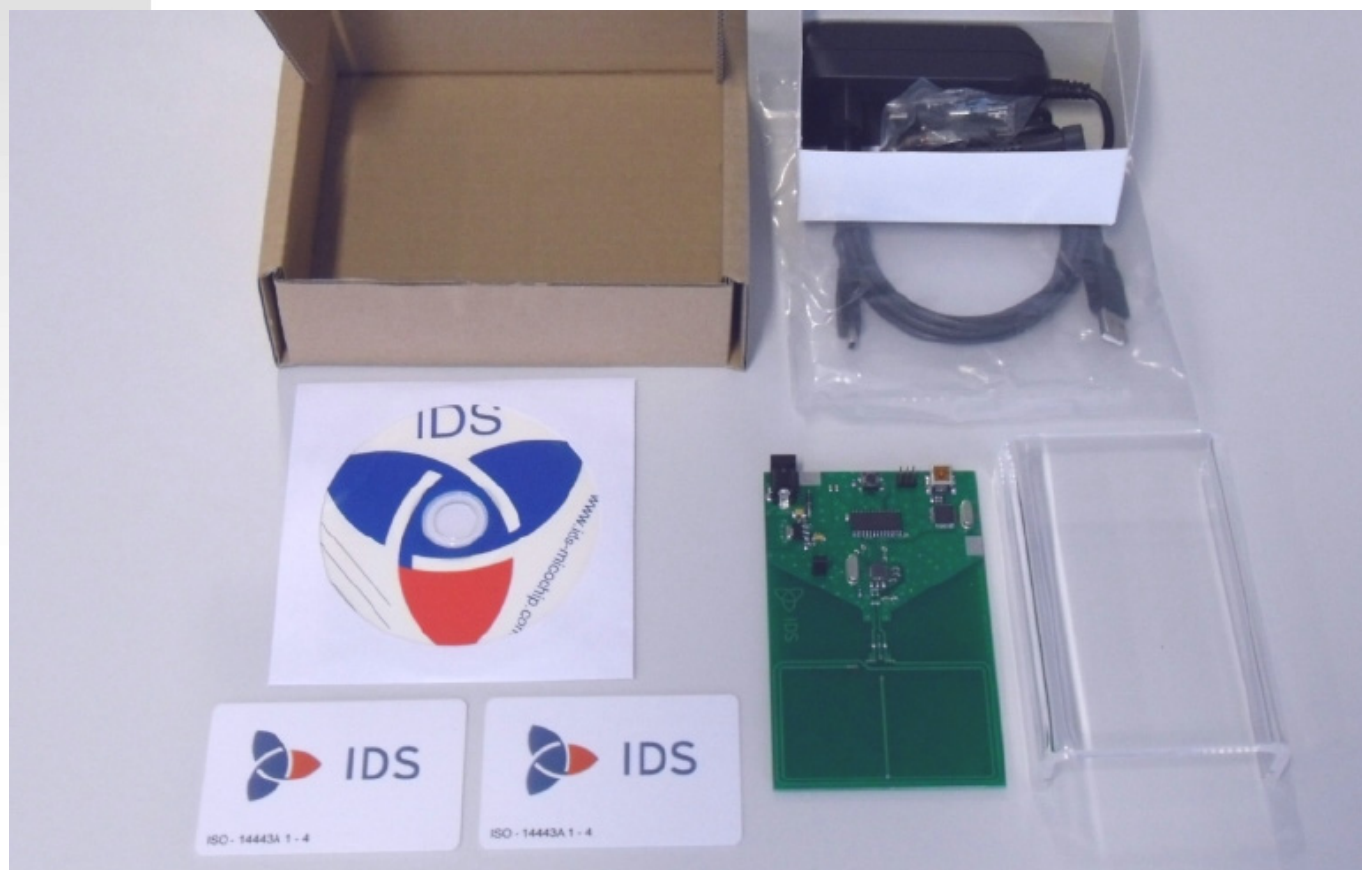
#### Key Features

- Extremely low power consumption to support battery-powered RFID reader systems
- Supports proprietary protocols in direct mode
- Automatic antenna tuning

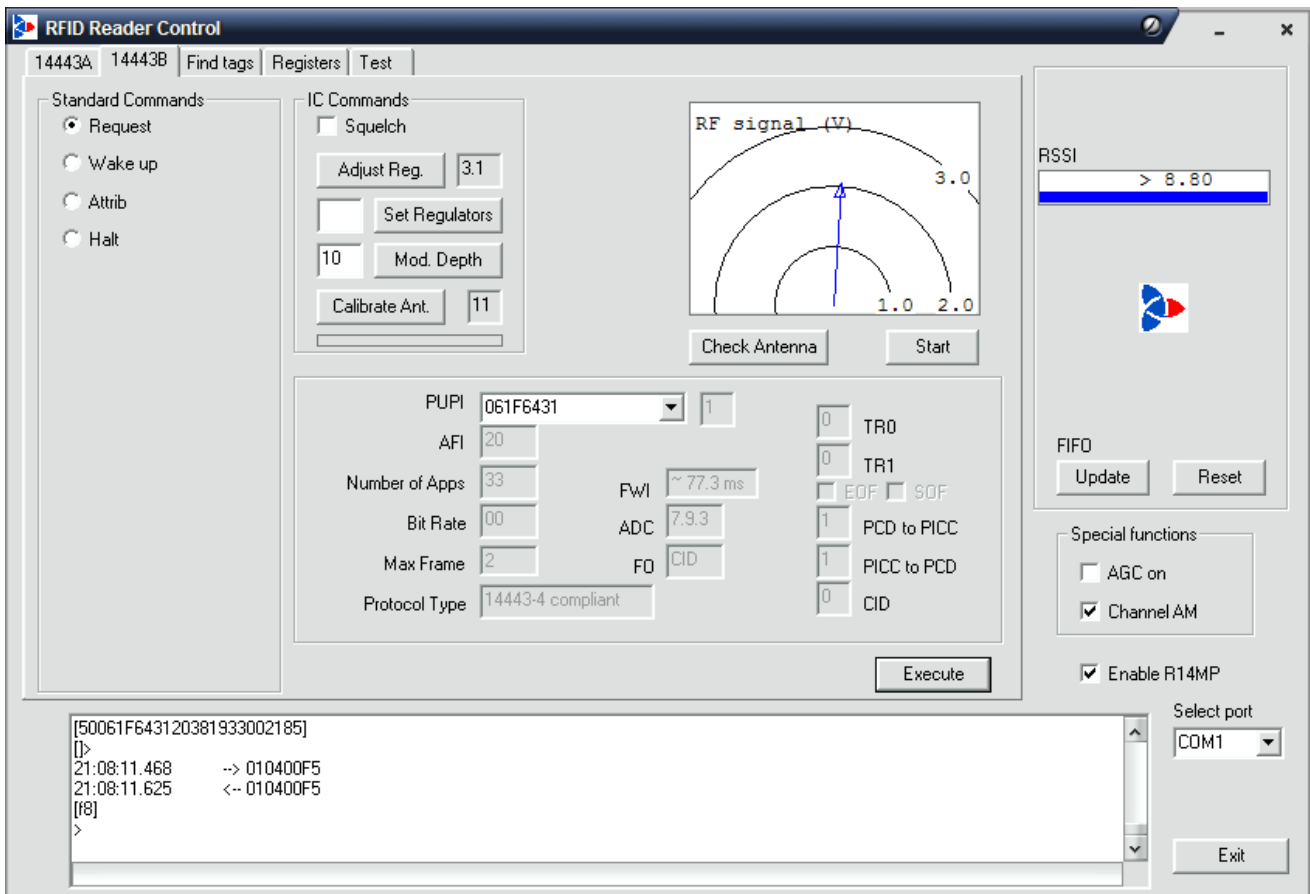
#### Development Kit

The development kit includes an R14AB reader board with a PIC controller. The kit comes with demo application and GUI software with source codes.

#### R14AB Development Kit



## Graphic User Interface (GUI)



The R14AB kit includes GUI software for running demo, and for controlling and changing the settings in the various registers over a PC using the USB port.

## ISO 14443/NFCIP-1 Reader with Lowest Power Consumption

The direct antenna driver system with antenna tuning (patent pending) provides high utilisation of power and reduction of BOM, which are essential in battery-powered RFID readers.

### About IDS Microchip AG

IDS Microchip AG is an RFID semiconductor company specialized in integrated circuits for RFID system solutions including readers, enhanced tags and labels with sensors for both HF and UHF systems. With its long history in RFID development, IDS offers one of the most complete semiconductor portfolios comprising both passive, semi-passive as well as active RFID systems.

Focusing on all silicon aspects of radio frequency identification (RFID) technology, IDS Microchip helps customers achieving cost-effective solutions. Its comprehensive portfolio comprises RFID and sensor-enabled integrated circuits and IP for highly integrated low-power RFID system solutions including fully integrated readers, enhanced tags and labels for HF and UHF systems. Founded in 1996 and privately funded, IDS Microchip is headquartered in Wollerau, Switzerland; with a design centre in Ljubljana, Slovenia, an office in Toronto and distributors throughout the world.

#### EMEA & Pacific

##### IDS Microchip AG

Wächlenstrasse 5,  
CH-8832 Wollerau, Switzerland  
Phone: +41 43 8446-253  
Fax: +41 43 8446-250  
sales@ids-microchip.com

#### Americas & Asia

##### IDS Microchip, Toronto Office

34 Granlea Rd,  
Toronto, ON M2N 2Z5, Canada  
Phone: +416 227-9196  
Fax: +41 43 8446-250  
sales@ids-microchip.com

[www.ids-microchip.com](http://www.ids-microchip.com)

Mifare™ is a registered trademark of NXP B.V., Netherlands.

The DK-R14AB is intended for use in laboratories only!

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