



# IDS-HF RFID Kit

For Developing 13.56 MHz RFID Reader and Smart Label Systems  
With **IDS-R13MP** and **IDS-SL13A**

## Kit Content

- PCB with multi-protocol HF RFID reader, IDS-R13MP
- Smart label board with IDS-SL13A, antenna and battery
- CD-ROM with demo application, documentation, examples, firm- and software (including source code)
- Various tags:
  - ISO 15693
  - ISO 14443A
  - STM SR176 (compliant with ISO 14443B up to level 3)
- 3 additional IDS-R13MP samples (QFN32)
- USB cable

## Applications

- 13.56 MHz RFID systems for:
  - Monitoring and tracking of temperature-sensitive products (cold chain)
  - Pharmaceutical logistics
  - Monitoring of fragile goods transportation
  - e-Manifest
  - Monitoring of patients in hospitals



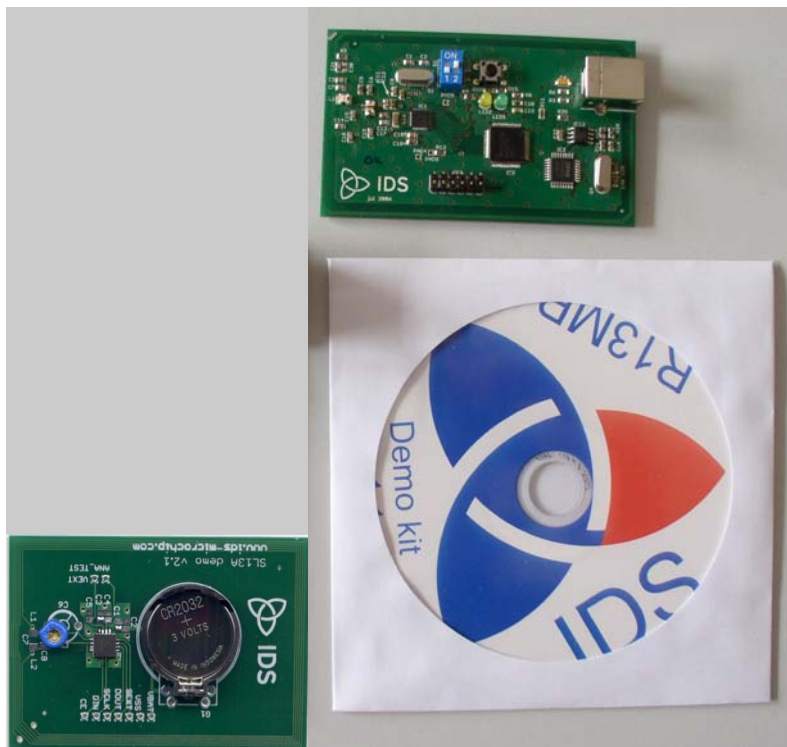
Kit includes HF RFID Reader and Smart Label board for temperature data logging!

## Description

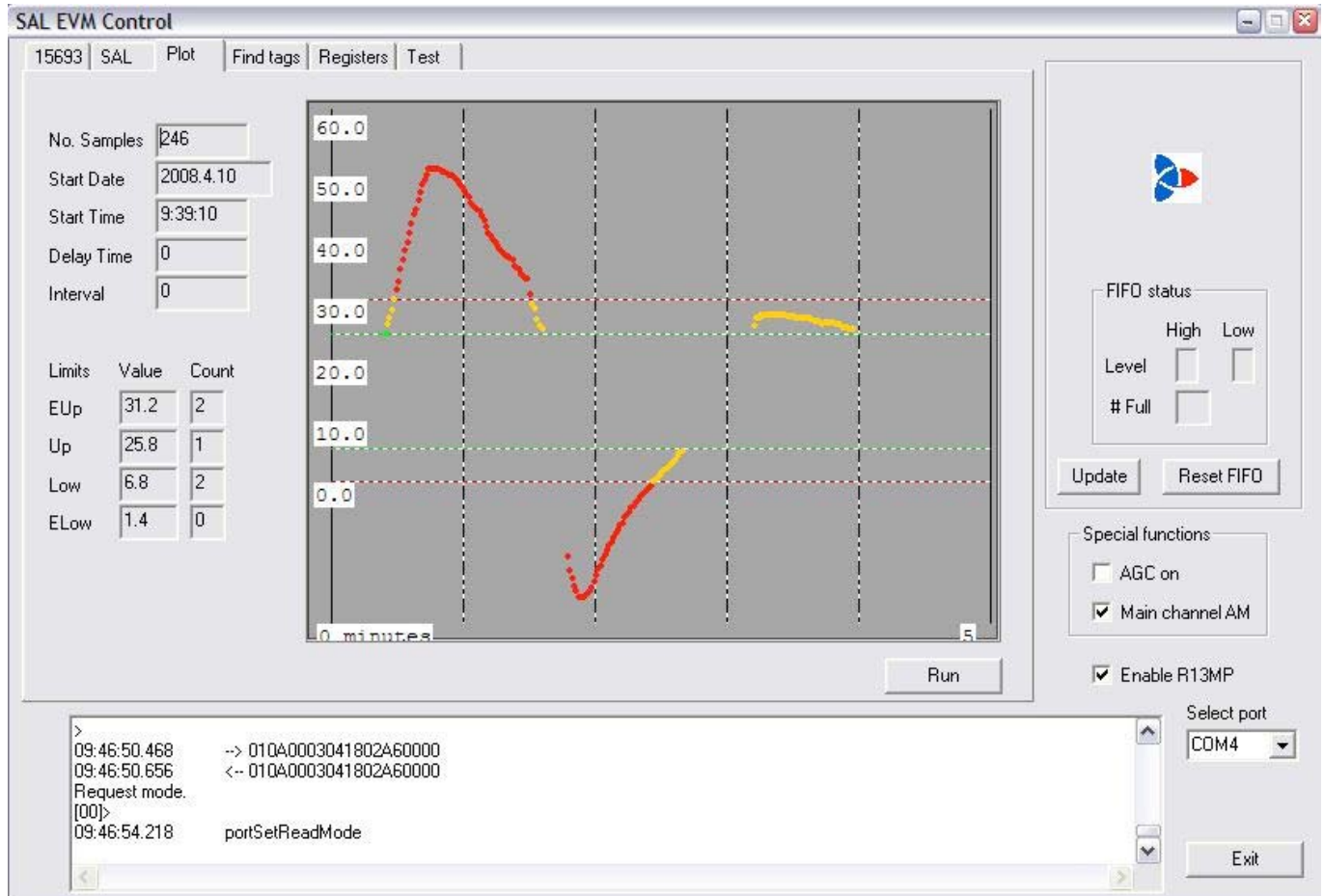
The multi-protocol RFID reader demonstration system supports the ISO 15693, ISO 14443A, ISO 14443B, STM SR176 FeliCa, Texas Instrument's Tag-it™ and cool-Log™ standards. The demonstration board should be connected to a USB PC port. The board is fully powered from the USB port. The included GUI software will run on a Windows XP PC.

The smart label evaluation board includes the IDS-SL13A, an ISO 15693/cool-Log™ compliant chip with fully integrated temperature sensor, an antenna and a battery.

## HF RFID Development Kit



## GUI Software



The HF RFID kit includes GUI software for displaying the logging data from the IDS-SL13A smart label chip. The above plot shows a temperature logging from the on-chip temperature sensor. Red plots mean temperature is outside of the selected limits and yellow means close to limits. Temperature values well within limits are not recorded. The limits and time intervals are user programmable.

## RFID Data Logging Demo System

The HF RFID reader board can read the included tags using the cool-Log™ protocol and the GUI software. Also, the logging data of the ISO 15693 smart label board can be read and displayed by the reader board and the GUI software. Furthermore, programming the settings of the smart label is done using the GUI software with the reader board.

Sales & Marketing EMEA  
 IDS Microchip AG  
 Wächlenstrasse 5,  
 CH-8832 Wollerau, Switzerland  
 Phone: +41 43 844 6253  
 Fax: +41 43 844 6250  
 sales@ids-microchip.com

Sales & Marketing Americas & Asia  
 IC Magic Inc.  
 34 Granlea Rd,  
 North York, ON M2N 2Z5, Canada  
 Phone: +416 227 9196  
 Fax: +41 43 844 6250  
 sales@ic-magic.com

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

Tag-it™ is a registered trademark of Texas Instruments, Inc.

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The IDS-HF RFID Kit is intended for use in laboratories only.

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