



## **Quick Start Guide**

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Multi-ISO Reader with Keyboard Emulation

**Document history**

Revision	Date	Author	Description
1.0	November 2012	Timo Baur	Initial version
1.1	April 2013	Timo Baur	Added document history Added supported OS Added tested OS Added info for Apple OS X Added screenshots for Windows, Linux, Android Added reader configuration info Re-organized document structure

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## 1. Supported operating systems

The “Multi-ISO Reader with Keyboard Emulation, USB” (PN: AMID2US00-KBD) comes with a special addition to its CCID firmware providing USB human interface device class keyboard emulation functionality. The drivers are part of the respective host operating systems and will be loaded automatically. The reader is then listed in the “Keyboards” section.

## 2. Tested operating systems

This device has been tested with the following operating systems:

Windows XP, 7 (32 bit)

Ubuntu Linux 12.10

Mac OS X 10.6.8 (Snow Leopard) & 10.8.2 (Mountain Lion)

Android 4.0.4. (Ice Cream Sandwich) on Samsung Galaxy Tab 2 10.1

## 3. Windows

After connecting to an USB port the device is automatically recognized as “HID Keyboard Device”

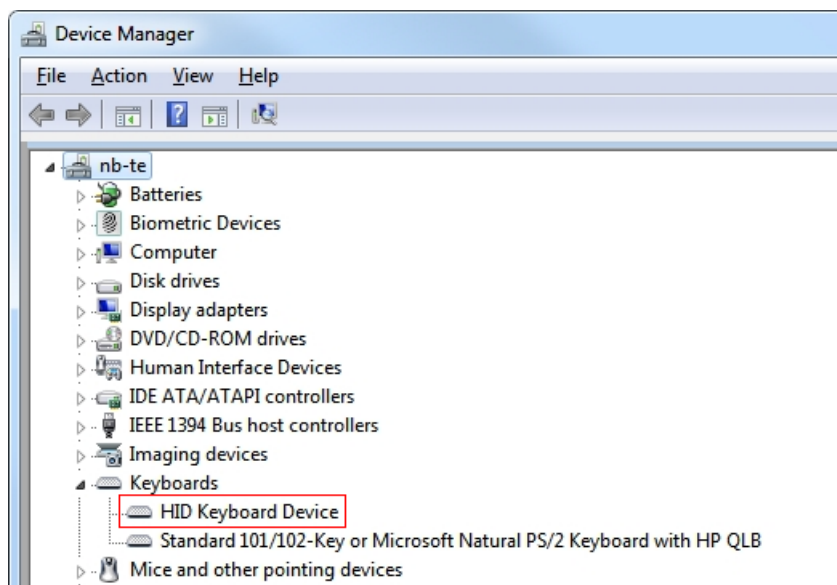


Figure 1 - Device enumeration in Windows 7

It works with any Windows operating system which provides USB HID device class drivers such as Windows 7.

#### 4. OS X

Upon connecting the device to a computer running OS X the “Keyboard Setup Assistant” (see Figure 2) will appear. Click “Continue” to proceed:

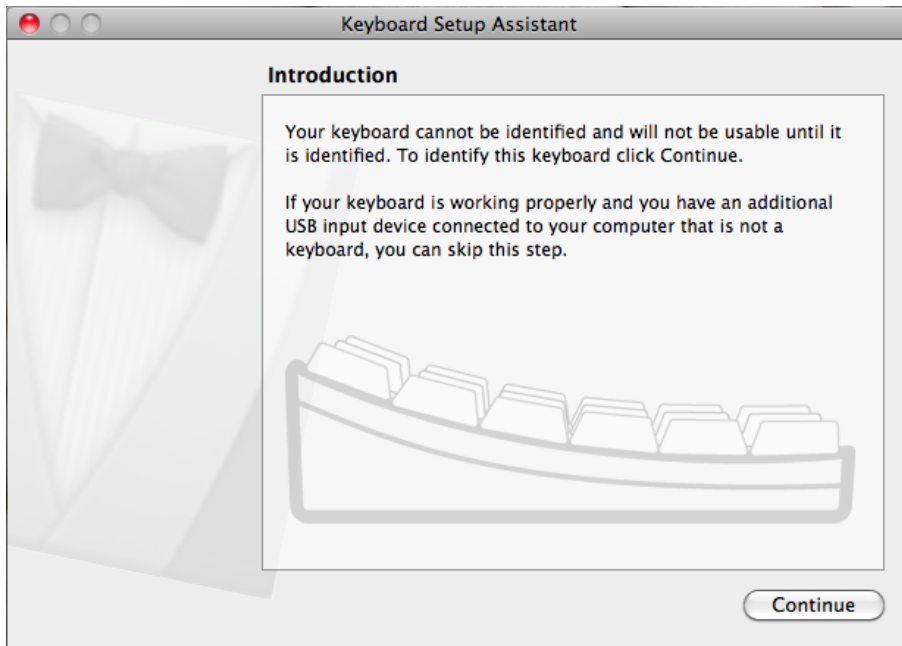


Figure 2 – Keyboard Setup Assistant

Now press any key on your keyboard:

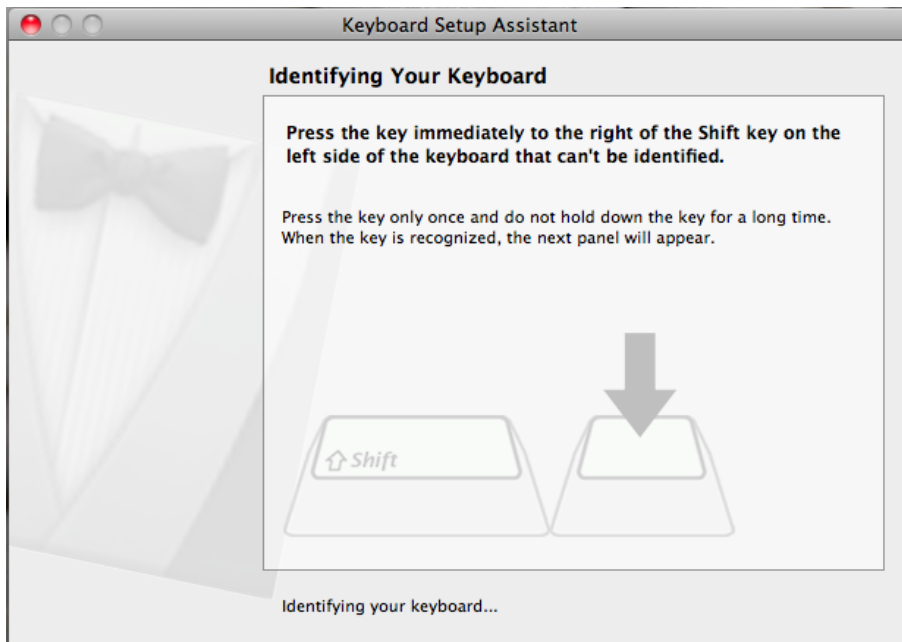


Figure 3 – Identifying keyboard

Click “Skip” to proceed:



Figure 4 – Keyboard cannot be identified

Now select the keyboard type suitable to your region:

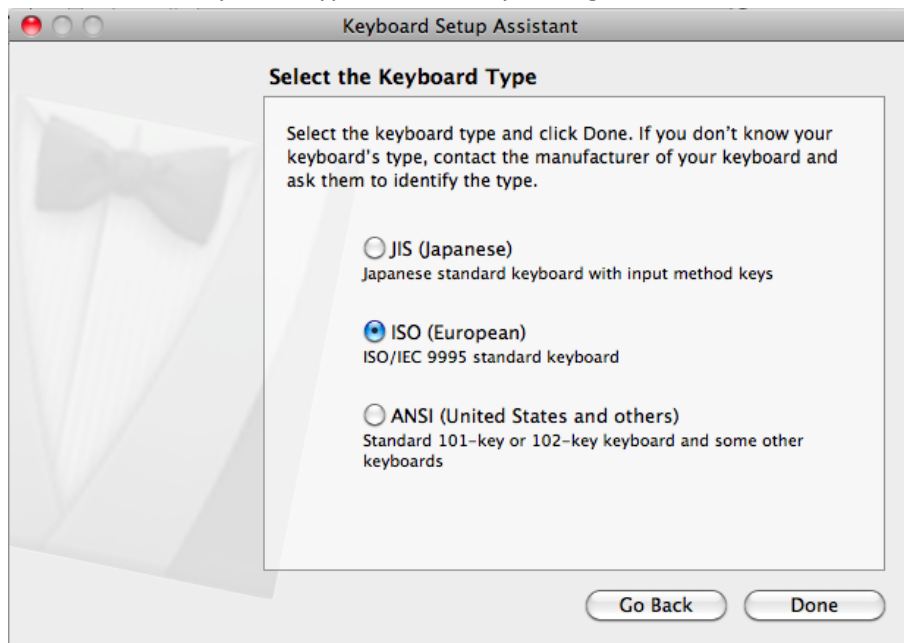


Figure 5 – Select keyboard type

Now the device should be listed in the OS X system profiler as shown below:

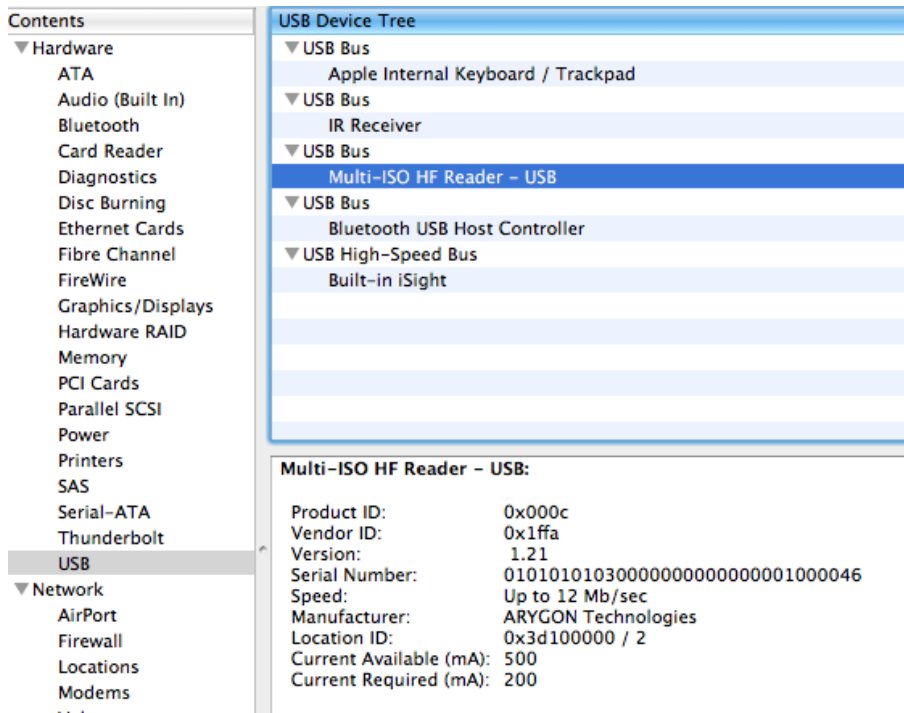


Figure 6 – Device enumeration in OS X system profiler

## 5. Using the reader/writer

The device is permanently polling for RFID tags compliant to ISO14443 & ISO15693. If the user places a tag in the reader RF field the UID will be instantly transmitted as an ASCII string at the current cursor position in any host application such as text editor, browser or ERP system

Please notice that despite the fact this reader has got an HID interface it still can be accessed via CCID interface the same way as a regular Multi-ISO reader with CCID. This means you still can send APDU commands to the reader to e.g. write data to a card/tag. It is also possible to disable the HID interface via APDU command to use the reader as standard CCID reader. For details please check the Multi-ISO reader (USB) user manual.

## 6. Reader configuration software

With the the “Identive Multi-ISO Keyboard Configurator” application you can change the settings of the HID keyboard emulation function to read user defined data (e.g. a specific block from a MIFARE 1k tag) instead of the tag UID. It is also possible to change the delimiter and the character delay. You can also easily disable the keyboard emulation. This tool requires reader firmware  $\geq 1.22$ . Please contact Identive sales for more information about this tool. The application is written in Java and can run on every operating system with Java Runtime Environment (JRE) installed.

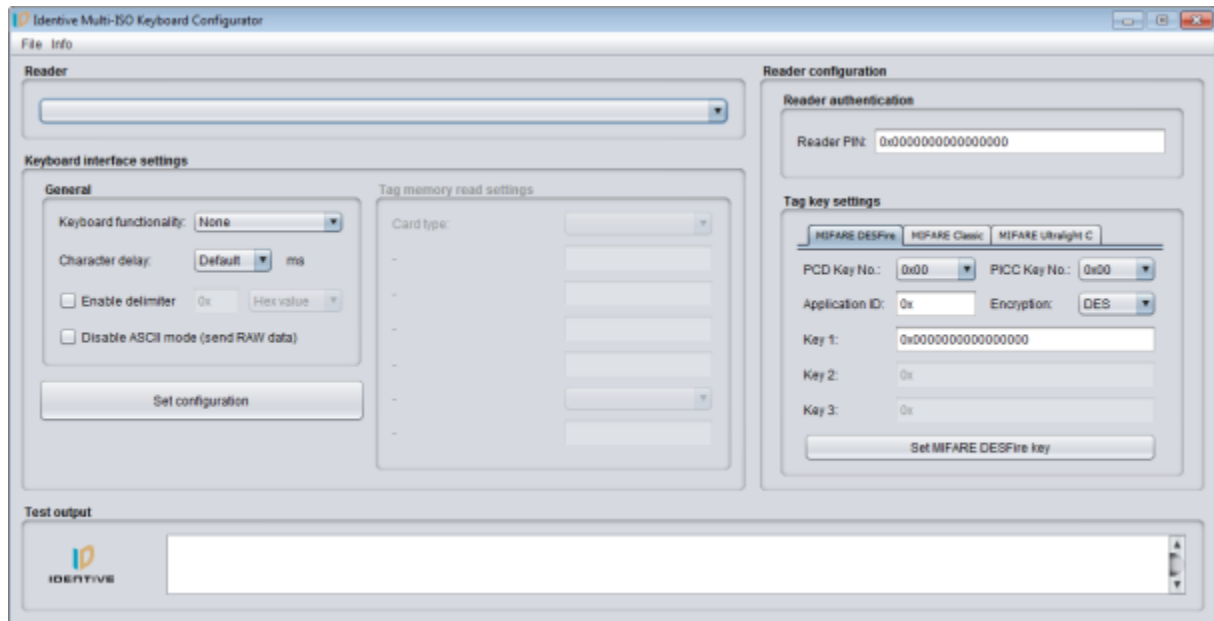


Figure 7 - Identive Multi-ISO Keyboard Configurator application

## 7. UID output

The following screenshots show pasted UIDs (4, 7 & 8 byte) at cursor positions of various OS:

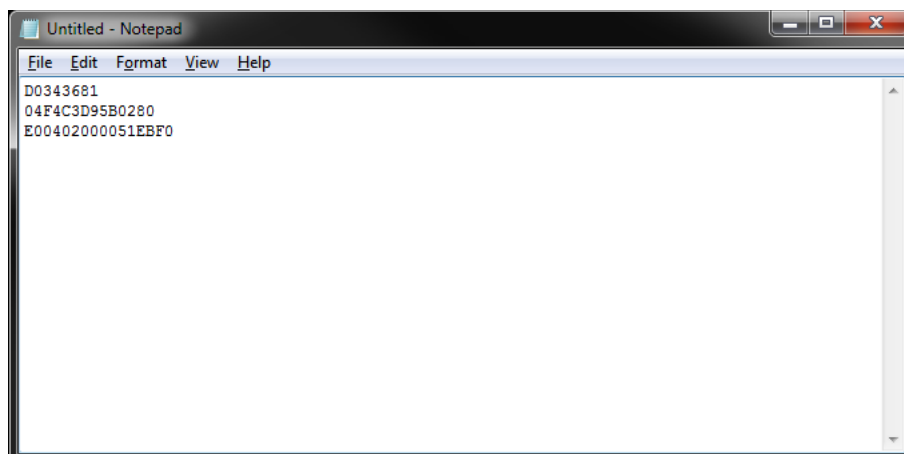


Figure 8 – Windows

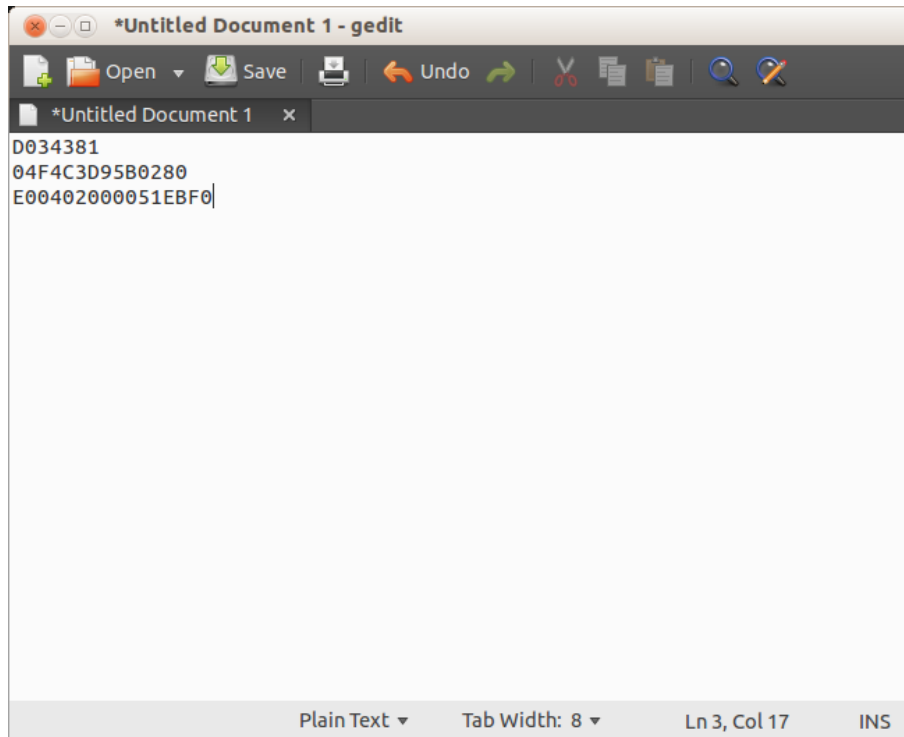


Figure 9 – Linux



Figure 10 - Android