

HID Omnikey 5427 on HP devices

This reader supports most cards including 125khz HID Prox and ISO EM cards as well as 13.5Mhz HID iClass and Mifare cards.

Plug the USB reader into Windows PC

The driver may automatically install when plugged in. If it does not, go to

<http://www.hidglobal.com/drivers> and download the EEM Driver for the OMNIKEY 5x27. Install the driver and then plug the USB reader in again.

Open a web browser to <http://192.168.63.99/>

If the driver is correctly installed, it will open the OMNIKEY 5427 Reader Management interface.

- Click **Keyboard Wedge**.
- Tick the **Keyboard Wedge Enable** checkbox.
- Ensure **Boot Interface** is ticked.
- Ensure the **Card Out Event Keystrokes** textbox contains [ENTER].

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- Click Card Data Selection.
- In the Card Type drop down, select your card type. The settings below may differ depending on which number must be used for authentication at your particular site. The settings below are an example using an HID iClass card. You can see what data will be sent by opening Notepad and then scanning the card. Edit these settings so that the correct data comes through. It must be a Hex string that ends in a carriage return (e.g. 014001c3).

- Untick the **CSN** checkbox.
- Tick the **PACS** checkbox.

HID OMNIKEY® 5427 CK Reader Management

Power 93: 0 days, 00:16:23
Power up Reset 0: 0 days, 00:16:23

General Overview Keyboard Wedge Reader Information Contactless Config Host Interfaces System Config System Consoles About

General Config **Card Data Selection** Card Data Manipulation

Card Type: HID iCLASS

Enable HID iCLASS ☒ Card In Event Keystrokes: [LED_BUZZ]

Data Field	Prestrokes	Key	Key Type	Book	Page	Block	Offset	Length	Poststrokes
CSN									[ENTER]
PACS									
Custom 1		0	Kd	0	0	0	0	0	
Custom 2		0	Kd	0	0	0	0	0	
Custom 3		0	Kd	0	0	0	0	0	

Data Field Prestrokes Offset Length Poststrokes

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Apply the changes and test in Notepad

Once the settings have been changed, we can test the output using Notepad.

- Click **System Config**.
- Click **Apply Changes**.
- Open **Notepad**.
- Scan the card. The output should be a hex string followed by a line feed.

Changing the Buzzer and LED settings

If the factory default buzzer and LED settings are not to the client's satisfaction, they can be changed in the Reader Management interface.

Under Contactless Config, click LEDs & Buzzer. Edit the settings and test until satisfied.

Below is an example configured for a recent client:

HID OMNIKEY® 5427 CK Reader Management Power 34: 0 days, 01:54:23
Software Reset 9: 0 days, 01:46:23

General Overview Keyboard Wedge Reader Information **Contactless Config** Host Interfaces System Config System Consoles About

Polling Config Antennas Config **LEDs & Buzzer** ISO14443A Config ISO14443B Config ISO15693 Config FeliCa Config iCLASS Config

Sequence Event **Card Access**

Sequence Repeat **0**

Step Index	1	2	3	4	5	6
LED 1	☐	☐	☐	☐	☐	☐
LED 2	☒	☐	☐	☐	☐	☐
Buzzer	☒	☐	☐	☐	☐	☐
Duration 1	0	0	0	0	0	0

HID OMNIKEY® 5427 CK Reader Management Power 34: 0 days, 01:53:11
Software Reset 9: 0 days, 01:45:11

General Overview Keyboard Wedge Reader Information **Contactless Config** Host Interfaces System Config System Consoles About

Polling Config Antennas Config **LEDs & Buzzer** ISO14443A Config ISO14443B Config ISO15693 Config FeliCa Config iCLASS Config

Sequence Event **USB Ready**

Sequence Repeat **255**

Step Index	1	2	3	4	5	6
LED 1	☒	☐	☐	☐	☐	☐
LED 2	☐	☐	☐	☐	☐	☐
Buzzer	☐	☐	☐	☐	☐	☐
Duration	0	0	0	0	0	0

Card Reader Settings in Resource Manager



For this example we will be using the card pictured above.

Ensure the reader is now plugged into the device. An error may be displayed on the printer panel stating that the USB device is not supported. This will be cleared once the PD apps have been pushed to the device.

1. Open Resource Manager and navigate to **Device Management > Shared Devices**.
2. Double click the HP device.
3. On the **Controller** tab, ensure the **Controller Type** is set to **HP Integrated**.
4. On the **Authentication** tab, in the **Authentication type** frame, ensure the **Identification method** drop-down is set to either **Card swipe or keypad login** or **Card swipe only**.
5. Click the **Auth Device** tab.
6. In the **USB device registration** frame, click the **Choose known VID/PID** button.
7. Choose **HID Omnikey 5427CK (keyboard wedge mode)** and click **OK**.
8. In the **Card reader settings** frame:
 - a. Choose whether self-registration of cards will be allowed and the authentication requirements for self-registration.
 - b. As the Omnikey is working in Keyboard Wedge Mode, we must choose either the keyboard wedge codes for hex characters or decimal characters from the **Byte conversion method** drop-down. By default, the reader outputs hex characters in which case choose **Keyboard wedge codes for hex characters**. If you want to confirm whether hex or decimal is outputted, plug the reader into a PC and scan a card with Notepad open.
 - c. **Data ordering** settings are ignored for keyboard wedge readers.
 - d. Now the **Start bit** and **Bit length** must be set based on the number you would like to extract from the binary string. For example above, to get the number 1749045 that is printed on this particular card, we would choose **Start bit: 24** and **Bit length: 31**.

Document revision date: 2020/07/09

Software version: 2.2.65.1

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