

# HID Omnikey 5427 on Lexmark devices

This card reader is supported on all Lexmark devices that support Print Director except for the XM1140 which does not support any card reader. It reads 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]**.

The screenshot displays the HID Omnikey 5427 CK Reader Management interface. At the top, the HID logo and product name are visible, along with power status information: "Power 93: 0 days, 00:14:31" and "Power up Reset 0: 0 days, 00:14:31". The main navigation bar includes tabs for "General Overview", "Keyboard Wedge", "Reader Information", "Contactless Config", "Host Interfaces", "System Config", "System Consoles", and "About". The "Keyboard Wedge" tab is active. Below this, there are sub-tabs for "General Config", "Card Data Selection", and "Card Data Manipulation". The "Keyboard Wedge" settings are shown, with "Keyboard Wedge Enable" checked, "Output Type" set to "Keyboard Wedge", "Boot Interface" checked, and "Card Out Event Keystrokes" set to "[ENTER]". Other settings include "Error Keystrokes", "Allow prestrokes and poststrokes for errors" (unchecked), "Keyboard Layout" set to "US", "Hex Output Case" set to "Lower", and "Inter-Keystroke Delay" set to "20". On the right, a list of card types is shown, including HID iCLASS, Seos, MIFARE Classic, MIFARE Ultralight, MIFARE Desfire, MIFARE Desfire EV1, MIFARE Plus, FeliCa, PIV, CEPAS, and FSK Prox (e.g. HID Prox, AWID). The copyright notice "© HID Global Corporation 2011-14" is at the bottom right.

- 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.

The screenshot shows the HID Omnikey 5427 CK Reader Management interface. The 'Card Data Selection' tab is selected. The 'Card Type' is set to 'HID iCLASS'. The 'Enable HID iCLASS' checkbox is checked. The 'Card In Event Keystrokes' is set to 'LED\_BUZZ'. A table shows settings for 'CSN' (unchecked) and 'PACS' (checked). Below the table are 'Custom 1', 'Custom 2', and 'Custom 3' settings.

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	

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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** (dropdown) Help

Sequence Repeat: **0** (input)

Save Sequence | **Set Automatic** | Clear Sequence | Clear Automatic | Run Sequence

Step Index	1	2	3	4	5	6
LED 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>LED 2</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Buzzer</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Duration 1</b>	<input type="text" value="1"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>

Set

**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** (dropdown) Help

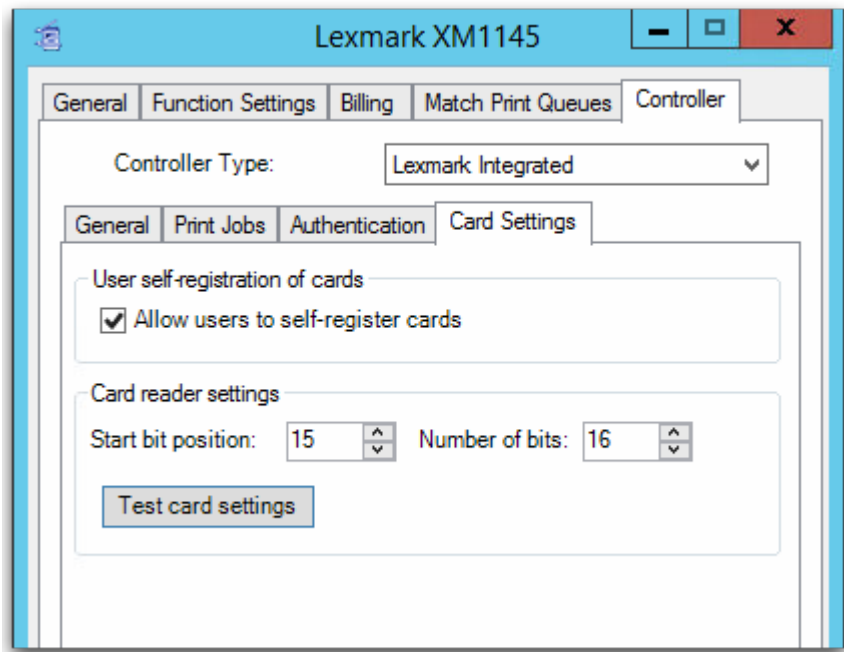
Sequence Repeat: **255** (input)

Save Sequence | **Set Automatic** | Clear Sequence | Clear Automatic | Run Sequence

Step Index	1	2	3	4	5	6
LED 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LED 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Buzzer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Duration	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>

Set

## Card Reader Settings in Resource Manager



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