

Elo Edge Connect™ RFID Reader (E673037)

Configuration Guide

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Revisions

Date	Description
01/20/2022	Initial release

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Prepping for Configuration

You will need to follow the steps below before attaching the device to your PC.

Requirements

- 1. EdgeConnect RFID Reader
- 2. Windows PC
 - Alternatively, you can use an I-Series AIO (Windows) or EloPOS Pack + Elo Monitor)
- 3. Female micro-USB to USB-A cable (if connecting EdgeConnect RFID Reader directly to a Windows PC
- 4. Access to the Internet

Download and Install Required Drivers and Apps

- 1. Download and install the following drivers and applications to the Windows PC (Note: disconnect EdgeConnect RFID Reader from PC before installation)
 - o Download and install the OMNIKEY CCID Driver https://www.hidglobal.com/drivers/39910
 - o Download and install the OMNIKEY USB CDC EEM Driver https://www.hidglobal.com/drivers/34881
 - Download and install the OMNIKEY Workbench App https://www.hidglobal.com/drivers/31950

Connect EdgeConnect RFID Reader to Windows PC

- 1. Connect the EdgeConnect RFID Reader to a Windows PC using one of these methods:
 - o Connect the RFID Reader directly to a Windows PC using a female micro-USB to USB-A cable
 - o Connect the RFID Reader to an I-Series (Windows) device
 - Connect the RFID Reader to an Elo monitor's EdgeConnect port and connect the Elo monitor to a Windows PC or EloPOS Pack (Windows)

Configuring the Reader

Follow the steps below to configure the reader.

Use the Workbench App to Switch from Keyboard to CCID Mode

- 1. Connect the EdgeConnect RFID Reader to a Windows PC using one of these methods:
 - o Connect the RFID Reader directly to a Windows PC using a female micro-USB to USB-A cable
 - o Connect the RFID Reader to an I-Series (Windows) device
 - Connect the RFID Reader to an Elo monitor's EdgeConnect port and connect the Elo monitor to a Windows PC or EloPOS Pack (Windows)
- 2. Open the HID/OMNIKEY Workbench Application
- 3. Go to the "Readers" tab on the left. You should see your device listed as an "Available Reader"

HI	Workbench 2.2 <		
f	Home	Available Readers	
	Readers		
di.	CCID driver	HID OMNIKEY 5127 CK	
ф	Application		
0	About		

- 4. Click the device.
- 5. Go to the "Reader Settings" tab
- 6. Click "CCID" for the "Operating Mode



7. Click Apply

Use the Configuration Web App to Configure the RFID Reader

- 1. Open your browser (Chrome works best).
- 2. Enter http://192.168.63.99/ into your address bar and press enter.
- 3. Click the "Keyboard Wedge" tab.
- 4. Click the "Keyboard Wedge Enable" checkbox.

General Keyboard Reader Contactless Host System System About General Card Data Input Data Out 1 Data Out 2 Data General Selection Manipulation Out 1 Data Manipulation Keyboard Wedge Enable Output Type Keyboard Wedge Boot Interface Card Out Event Keystrokes Error Keystrokes Allow prestrokes and poststrokes for errors Tech order after error Enable Keyboard Wedge Encryption	MID. OMNIKEY ® 53	x27 CK Read	ler Mana	gement	Softwa	Power 36: 0 ire Reset 1: 0	days, 00:02:18 days, 00:00:27
General Config Card Data Manipulation Out 1 Data Manipulation Keyboard Wedge Enable Output Type Keyboard Wedge Boot Interface Inter-Keystroke Delay Card Out Event Keystrokes Error Keystrokes Allow prestrokes and poststrokes for errors Tech order after error Enable Keyboard Wedge Encryption	General Keyboard Overview Wedge	Reader Information Config	ss Host Interfaces	System Config	System Consoles	About	
Keyboard Wedge Enable Output Type Keyboard Wedge Boot Interface Boot Interface Inter-Keystroke Delay Inter-Keystroke Delay Host Operating System Windows Tech order after error Inter-Keyboard Wedge Encryption	General Card Data Input Data Out 1 Data Config Selection Manipulation	Out 2 Data Manipulation					
Output Type Keyboard Wedge * Boot Interface Inter-Keystroke Delay 20 Inter-Keystroke Delay 20 Host Operating System Windows *	Keyboard Wedge Enable 🥑		Keyboard Layou	t US 🔻]		
Boot Interface Inter-Keystroke Delay 20 Host Operating System Windows Host Operating System Sys	Output Type Keyboard Wedge 💌		Hex Output Case	e Lower 💌			
Host Operating System Windows Host Operating System Windows Host Operating System Windows Host Operating System Windows Indows Host Operating System Windows Indows Host Operating System Windows Indows Indo	Boot Interface	Inte	Keystroke Delay	20			
Error Keystrokes And poststrokes for errors Tech order after error hable Keyboard Wedge Encryption Encryption Encryption	Card Out Event Keystrokes	Host	perating System	Windows 🔻]		
Allow prestrokes and poststrokes for errors	Error Keystrokes						
Tech order after error	Allow prestrokes and poststrokes for errors						
Enable Keyboard Wedge Encryption	Tech order after error 🗹						
Encryption Key	Enable Keyboard Wedge Encryption						
	Encryption Key						

NOTE: On this screen, you can also enable encryption with an encryption key that only you/your software knows

5. Go to the "Card Data Selection" sub-tab under the "Keyboard Wedge" tab

HIII		OMNI	(EY ® 5	x27 CK	Reade	r Manag	jement	Softwa	Power 35: 0 ire Reset 1: 0	days, 00:20:34 days, 00:16:01
		General Overview	Keyboard Wedge	Reader Information	Contactless Config	Host Interfaces	System Config	System Consoles	About	
General Config	Card Data Selection	Input Data Manipulation	Out 1 Data Manipulation	Out 2 Da Manipulat	ta ion					
Card Typ	Generic IS	6014443A	•		Enable Gen	eric ISO14443	A 🗹			
Data Field	Enabled	Leading Byte	Reverse	e						^
CSN			None	-						- 1
PACS			None	-						

- 6. Choose the Card Type you would like to enable (for example, "Generic ISO14443A")
- 7. Click the checkbox to enable.
- 8. Make sure the required data field is enabled (for example, "CSN")

If you have other custom requirements, enable them as necessary. In the example below, data must be a specific format, and only characters 9-25 are needed. To support this, enable a customization to that data field and set the offset to 9 and the length to 16 (works best with PACS data field because it's in bits not bytes).

HID	OMNIKEY ® 5x27	CK Reader Manag	jement	Software	Power 35: 0 da e Reset 1: 0 da	ays, 00:40:47 ays, 00:36:14
	General Keyboard Read Overview Wedge Informa	ler Contactless Host ation Config Interfaces	System Config	System Consoles	About	
General Card Data Config Selection	Input Data Out 1 Data Ou Ianipulation Manipulation Man	t 2 Data ipulation				
Card Type Generic ISO	4443A 🔹	Enable Generic ISO14443	Α 🗹			
Data Field Enabled	Leading Reverse Byte					^
CSN 🗹	None 💌					
PACS	None 🔻					
Data Field Enabled	Reverse Offset (Byte	s) Length (Bytes)				
CSN Custom 1 🕑	None 🔻 9	16				
CSN Custom 2	None 🔻 0	0				

10. Next, go to the "Out 1 Data Manipulation" sub-tab

HID	Power 35: 0 days, 00:45 OMNIKEY ® 5x27 CK Reader Management Software Reset 1: 0 days, 00:41								
	G	eneral Verview Wedge	Reader Co Information	ntactless Config	Host Interfaces	System Config	System Consoles	About	
General Config	Card Data In Selection Ma	put Data nipulation Manipulatio	a Out 2 Data Manipulation						
Card Type	Generic ISO14	443A	Hex Output C	ase Lower					^
Datafield	String Format	String	Filtering			String Tr	uncating		
CSN	HEX 💌	Char 0 Dir	ection Leading	•	Type Cu	t off 🔹	Offset 0	Length 0	
PACS	HEX 💌	Char 0 Dir	ection Leading		Type Cu	t off 🔹	Offset 0	Length 0	
Datafield	String Format	String	Filtering			String Tr	uncating		
Custom CSN 1	HEX 💌	Char 0 Dir	ection Leading	•	Type Cu	t off 🔻	Offset 0	Length 0	
Custom CSN 2	HEX 🔻	Char 0 Dir	ection Leading		Type Cu	t off 🔻	Offset 0	Length 0	

- \circ $\;$ This is where you can set the data format using "String Format" $\;$
- You can also filter out leading and/or trailing zeros (Note: if you are doing both, you'll need to use a custom option in the second section).
- 11. Next, go to the "Out 2 Data Manipulation" sub-tab
 - This is where you can turn the buzzer off (on by default)
 - You can add padding to your string here (before and/or after and just like the filtering, you will need to use a custom option in the second section if you need both)
 - You can also add Enter after the read with "[ENTER]"

Configuration Guide

12. Next, go to the "System Config" tab

HID	OMNIKEY ® 5x27 CK Reader Management		
	General Overview Keyboard Wedge Reader Information Contactless Config Host Interfaces System Config	System Consoles	About
Update Firmware	No file chosen		
Upload Config	No file chosen		Apply Changes
Encrypt Firmware	No file chosen		Restore Default Reboot System
Load Key Layout	No file chosen		
Update BLE Firmware	No file chosen		
Export Config)	
Signing Key			
Verification Key			

- 13. Click "Apply Changes"
- 14. Click "Reboot System"

Upload Configuration File to Configuration RFID Reader

- 1. If applying this same configuration to multiple RFID readers, click the "Export Config" button (on the System Config tab) to export all configuration settings to an external configuration (.cfg) file.
- 2. For the next RFID Reader:
 - \circ ~ Use the Workbench App to switch from Keyboard to CCID Mode
 - o Use the Configuration Web App (System Config tab) to upload the configuration file and Apply Changes



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