CP-R27 DESFire EV1 / MIFARE Classic EV1 Desktop Programmer

Installation Guide

1. Introduction

The CP-R27 is a new contactless smart card and desktop reader to read/write 13.56 MHz technology, including, MIFARE Classic EV1 and DESFire EV1. It is compliant with ISO14443A/B.

The CP-R27 is designed as a Plug & Play smart card reader with a USB port, and is suitable for various smart card applications, such as smart card issuing and programming, personal identification.

1.1. Features

- Supports ISO/IEC18092 NFC peer-to-peer mode
- Supports high-level command of DESFire EV1 (DES/3DES, 3k3DES, AES) on hardware
- Supports high speed of ISO14443 up to 424 kbps
- Excellent and compact design, can be placed on metal surface

2. Configuring the CP-R27 with the AS-B01 Configuration Tool

The procedure to configure the CP-R27 with AS-B01 is given in the AS-B01 Installation and User Guide.

3. Operation

When the driver is successfully installed the CP-R27 appears as a **Civintec USB reader** and can be used with the AS-B01 software application configuration tool to create secured credentials and configuration cards.

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4. Driver

This section gives the procedure to download and install the driver for the CP-R27 Desktop Programmer.

1. Connect the CP-R27 Desktop Programmer to a PC using a USB cable.

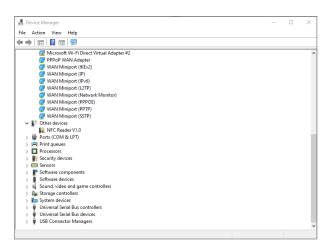


One cable end connects to the PC USB host port output and the other end connects to the USB connector on the CP-R27 Desktop Programmer.

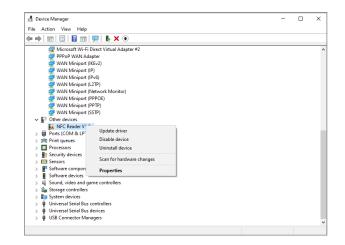


Make sure the location for the CP-R27 driver is known.

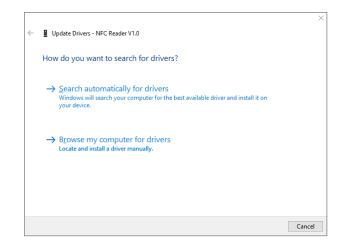
- 2. Select and hold (or right-click) the Start **H** button, and then select **Device Manager**.
- 3. You can find NFC READER Vx.x under Other Devices.



4. Right-click **NFC READER Vx.x** and select **Update driver**.



5. Select Browse my computer for drivers.

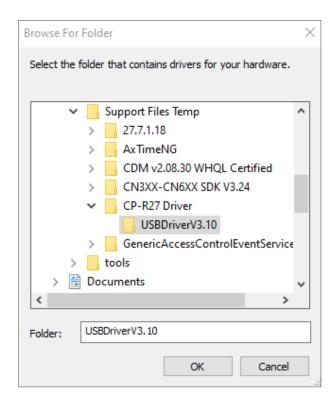


6. Click Browse.

		×
←	Update Drivers - NFC Reader V1.0	
	Browse for drivers on your computer	
	Search for drivers in this location:	
	Browse	
	Include subfolders	
	→ Let me pick from a list of available drivers on my computer This list will show available drivers compatible with the device, and all drivers in the same category as the device.	
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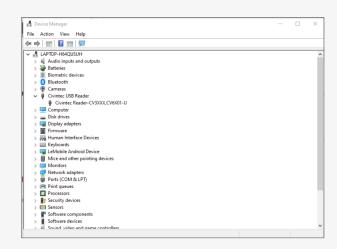
7. Select the CP-R27 Driver folder and click OK.



8. Click Next.

	×
← ■ Update Drivers - Civintec Reader-CV3XXX,CV6X01-U	
Browse for drivers on your computer	
Search for drivers in this location:	
C:\Users\mickey.ROSSLARE1\Desktop\Support Files Temp\CP-R27 V Browse	
Include subfolders	
\rightarrow Let me pick from a list of available drivers on my computer	
This list will show available drivers compatible with the device, and all drivers in the same category as the device.	
same category as the device.	
Next	Cancel

The Civintec USB Reader driver is installed.



5. LED Indications and Buzzer Sounds

The table below gives the LED indications and buzzer sounds during programming the CP-R27 Desktop Programmer.

Event	LED Indications	Buzzer Sounds
Supply power	One red LED lights comes on for several seconds, then all the LEDs will flash.	Beeps once and the LED comes on red.
Write / read card success	Red LED comes on for three seconds.	One short beep.
Write card failure	Red LED comes on for three seconds.	Two short beeps.

6. Technical Specifications

Electrical Characteristics				
Power Supply (from USB)	5 VDC (±5%)			
Current Consumption	<120 mA			
Data Specifications				
Communication Rate	106 -424 kbps High speed transaction			
Baud Rate	9600 to 115200 bit/s (default 115200)			
	Controllable two-color LED, one buzzer:			
Indication	Red LED for Power state			
	Green LED for Normal Reading state			
Interface	USB (USB supplies power)			
Communication Cable	1.5 meter long USB communication cable			
Frequency	13.56 MHz; APDU command			
Environmental Characteristics				
Environment	Indoor			
Operating Temp. Range	0°C to 60°C (32°F to 140°F)			
Storage Temp Range	-10°C to 65°C (22°F to 149°F			
Operating Humidity Range	5 to 95% RH (non-condensing)			
Standards				
Contactless	ISO14443A 4(part 1-4), MIFARE Classic EV1, DESFire EV1, ISO14443B			
Contact	ISO 7816 1/2/3, Class B,C (3V,1.8V), T=0 and T=1			
Signaling				
	Controllable two-color LED, one buzzer:			
Signaling Type	Red LED for Power state			
	Green LED for Normal Reading state			
Power Down	Sleep Mode			

Physical Characteristics				
Weight	79 g (2.8 oz)			
Dimensions (L x W x H)	116 x 67 x 14 mm (4.6 x 2.6 x 0.6 in.)			



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