SWIFTLANE

Swiftlane Z-10 Readers

Model: SL-Z10-W/SL-Z10-R

Quick Start Guide
Version1.0

The Swiftlane SL-Z10 series stands out as one of the most compact multi-frequency RFID readers currently on the market. It boasts compatibility with over 100 RFID card types and supports both NFC including Apple and Google Wallet and Bluetooth Low Energy credentials.

Getting Started

Before you install the reader, make sure you have what you need to set it up.

1. **Download the Swiftlane app.** Get it from the Apple App Store or Google Play.
2. **Get account access.** You'll need an Admin login on your Swiftlane account to register and test the reader. If you don't have access yet, contact Swiftlane Support at 888-884-4005 and they'll set you up.
3. **Mount the reader.** Follow the steps in Installing the Reader on the Wall to mount and wire it.
4. **Register and test.** Once the reader is mounted, powered on, and online, open the app and follow Register the Reader (page 2).

Parts Included

Make sure your box contains everything listed. If any pieces are missing, contact your dealer. Please save the original box and packing materials if you ever need to ship your device.

- Swiftlane Z Series - SL-Z10-W (Wiegand)/ SL-Z10-R (OSDP) Reader (1pc)
- Quick Start Guide (1pc) and Mounting Template (1pc)
- Mounting Plate (1pc)
- Screwdriver (1pc)
- Grub screw/Countersunk KA3.6 x 1.57 inchs (40mm) self – tapping screws (4pcs) and Anchors (4pcs) – for mounting directly to a wall (no junction box)
- Torx screw TM3 x 0.24 inches (6mm) (1pc) – for fixing the reader to the mounting plate

Recommended Parts(not supplied)

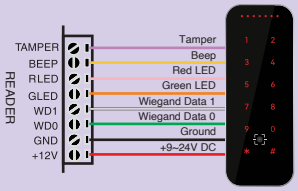
- Cable
  5-10 conductor (Wiegand)
  4 conductor Twisted Pair Over-All Shield and UL approved, Belden 3107A or equivalent (OSDP)
- Certified LPS DC power supply
- Metal or plastic junction box
- Drill with various bits for mounting hardware
- Mounting hardware

3 Reader Connection

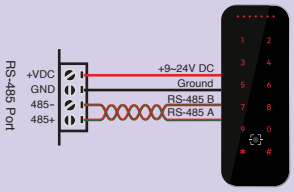
The Swiftlane SL-Z10 Series Reader communicates with the control panel using either RS-485 (OSDP) or Wiegand.

Pigtail	Description
Red	+9 - 24V DC
Black	Ground
Red/Green	RS-485 A
Brown	RS-485 B
Bare	Drain
Green	Wiegand Data 0
White	Wiegand Data1
Orange	Green LED Input
Pink	Red LED Input
Yellow	Beep Input
Violet	Tamper

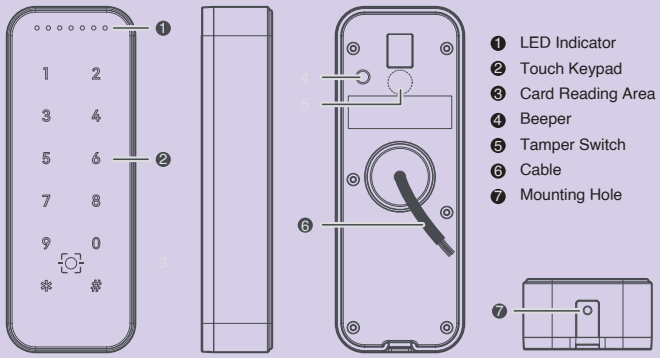
1. Connection via Wiegand.



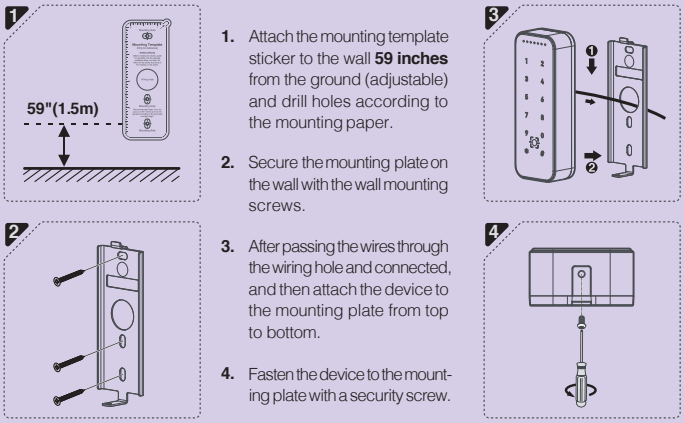
2. Connection via RS-485 (OSDP).



1 Product Overview

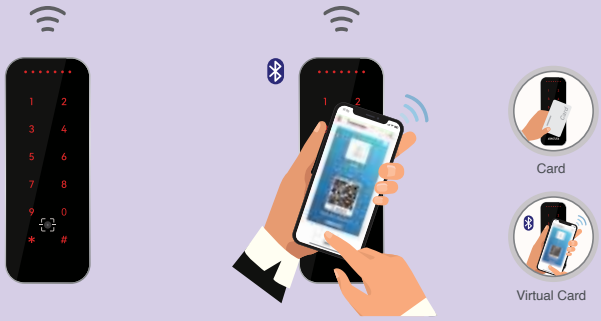


2 Installing The Reader On The Wall



1. Attach the mounting template sticker to the wall **59 inches** from the ground (adjustable) and drill holes according to the mounting paper.
2. Secure the mounting plate on the wall with the wall mounting screws.
3. After passing the wires through the wiring hole and connected, and then attach the device to the mounting plate from top to bottom.
4. Fasten the device to the mounting plate with a security screw.

4 Using And Testing The Reader



Turn on the reader, and it will emit a beep while the LEDs flash.

Present the credential to the reader and you will hear a beep acknowledging the credential.

5 Frequency Bands And Maximum Output Power

Frequency bands	Maximum output power
2402MHz - 2480MHz	6.59dBm
13.56MHz	-22.20dBμA/m@10m

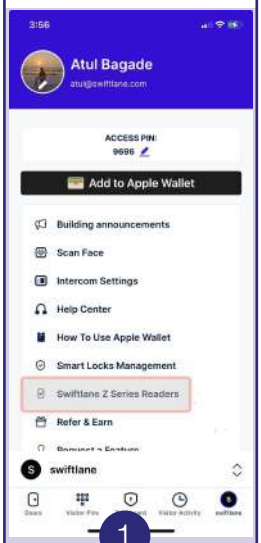
6 Certificate Information

SWIFTLANE

SWIFTLANE LLC www.swiftlane.com E-mail: sales@swiftlane.com

7 Registering Card Reader

1. In the Swiftlane app, go to Profile to Swiftlane Z Series Readers.



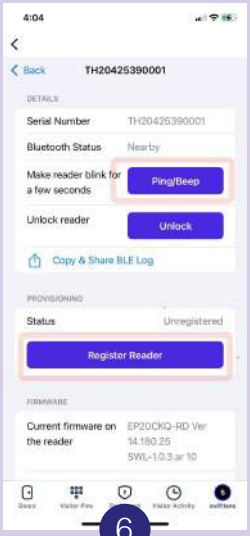
2. Open the Swiftlane Z Series Readers option.

3. This screen lists:
   - All nearby Z Series readers in the Unregistered state.
   - All Z Series readers already Registered on the account (even if they aren't currently nearby).

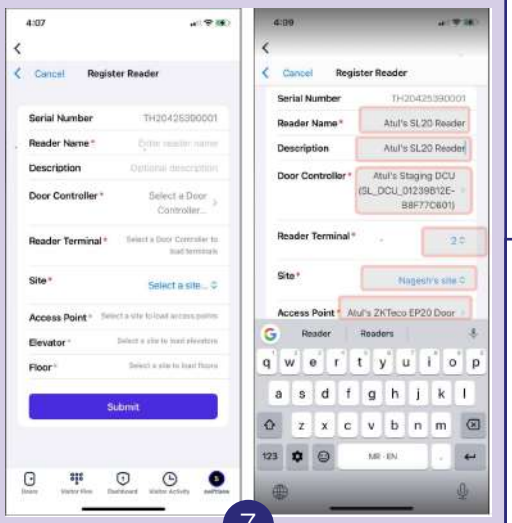
4. The installer must be within BLE range of the reader to register it.

5. Select the reader to register

6. If multiple unregistered readers are nearby, use the Ping / Beep button to identify which physical reader is selected — it will emit a long beep.



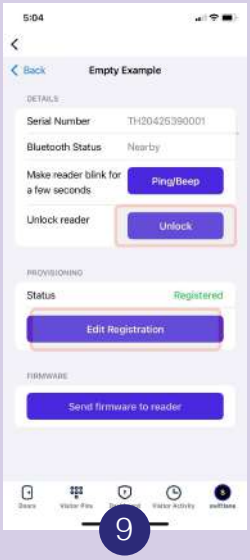
7. Fill in the registration form:
   - Reader name and description
   - DCU the reader is mapped to, and the corresponding Wiegand terminal
   - Site and Access Point (created earlier by Admin / Ops)
   - Here, you can also assign the reader to Elevator or Floor. Select the Elevator and Floor you want to assign accordingly



8. After registering, tap Unlock to verify the reader is correctly registered.

   (The admin user performing registration must have access on this Access Point for the BLE unlock to succeed.)

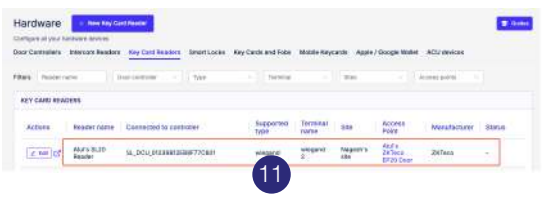
9. The admins / installer can also change the DCU mapping, reader name, access point, etc. using **"Edit Registration"** button need to be present near the reader to successfully take effect of the change)



10. 

11. The reader will now appear as Registered in the Z Series readers list, along with its Access Point details.

11. A corresponding reader entry is automatically created in Admin Dashboard to Hardware to Key Card Readers.



Send Firmware to Reader

Note: No need to upgrade firmware, unless specifically asked by Swiftlane operations team

- This option is available in Swiftlane app for future usage, in case we need to upgrade device's firmware - should be very rare
- The readers will have default firmware which supports all unlock methods and is thoroughly tested
- If we receive a new Firmware from the OEM, we can upload it on our backend and admins can easily upgrade on the reader using this option. They just need to select the correct firmware version and select Upgrade option while standing within BLE range of the reader.

8 Swiftlane Z-10 Series Dimensions

Specifications	
Internal Number	SL-Z10-W/SL-Z10-R
Operating Frequency / Standards	13.56 MHz: ISO14443 types A & B, ISO15693 2.4 GHz Bluetooth®
Functions	RFID, Bluetooth®
Keypad	Touch Keypad
Power Requirement / Power Supply	9 VDC to 24 VDC
Operating Temperature	-4°F - 122°F / -20°C to 50°C
Dimensions	4.78" W x 1.77" H x 0.96" D (121.5 x 45 x 24.5mm)

9 FCC + CE

"Hereby, Swiftlane, Inc. declares that this Product is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

"This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.
This equipment should be installed and operated with a minimum distance of 7.87 inches (20cm) between the radiator and your body.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter."