

Swiftlane Smart Readers

Model: SL-Z20-W/SL-Z20-R

All Weather Outdoor Multi-tech Smart Reader

Quick Start Guide
Version 1.0

The SL-Z20 series reader is one of the most compact multi-frequency RFID readers available that supports over 100 RFID card types and both NFC including Apple and Google Wallet and Bluetooth Low Energy credentials. Installs on Single-Gang, European-standard gang box and Asian standard boxes to fit all kinds of installation environments.

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-Z20-W (Wiegand)/ SL-Z20-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 inches (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

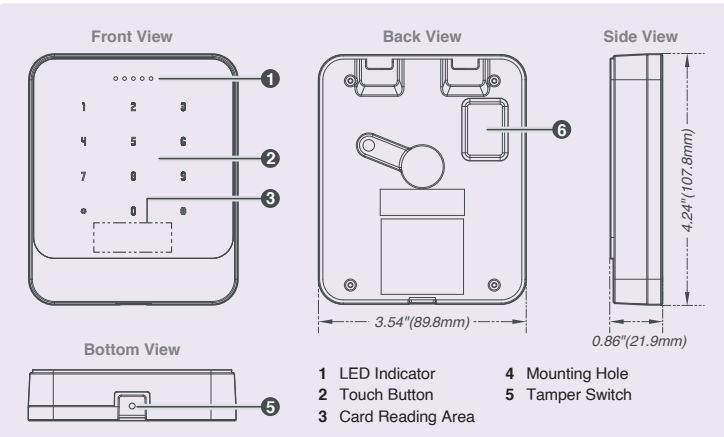
Recommended Parts

- ▼ 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

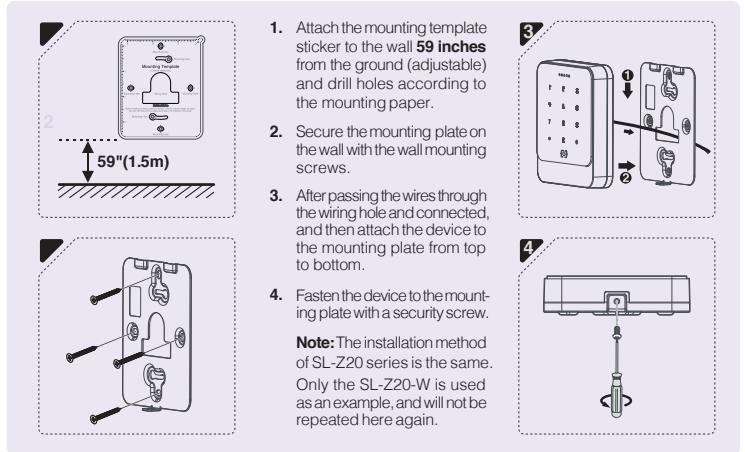
Level

- ▼ Destructive attack level: I
- ▼ Line security level: II
- ▼ Endurance level: IV
- ▼ Standby power level: I

1 Product Overview



2 Install The Reader On The Wall



3 Reader Connection

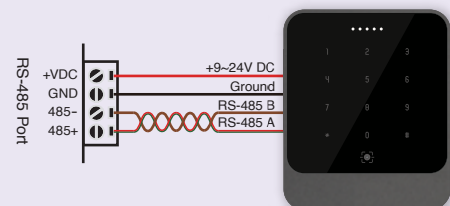
The SL-Z20 series can communicate with the control panel via either RS-485 (OSDP) or Wiegand.

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 Data 1
Orange	Green LED Input
Pink	Red LED Input
Yellow	Beep Input
Violet	Tamper

1. Connection via Wiegand.

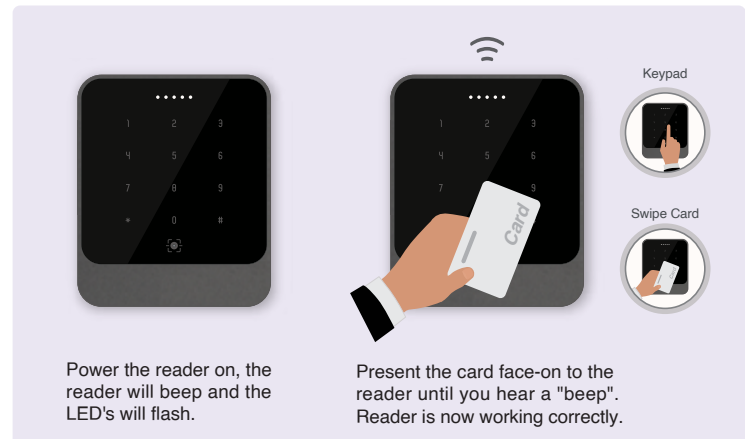


2. Connection via RS-485 (OSDP).

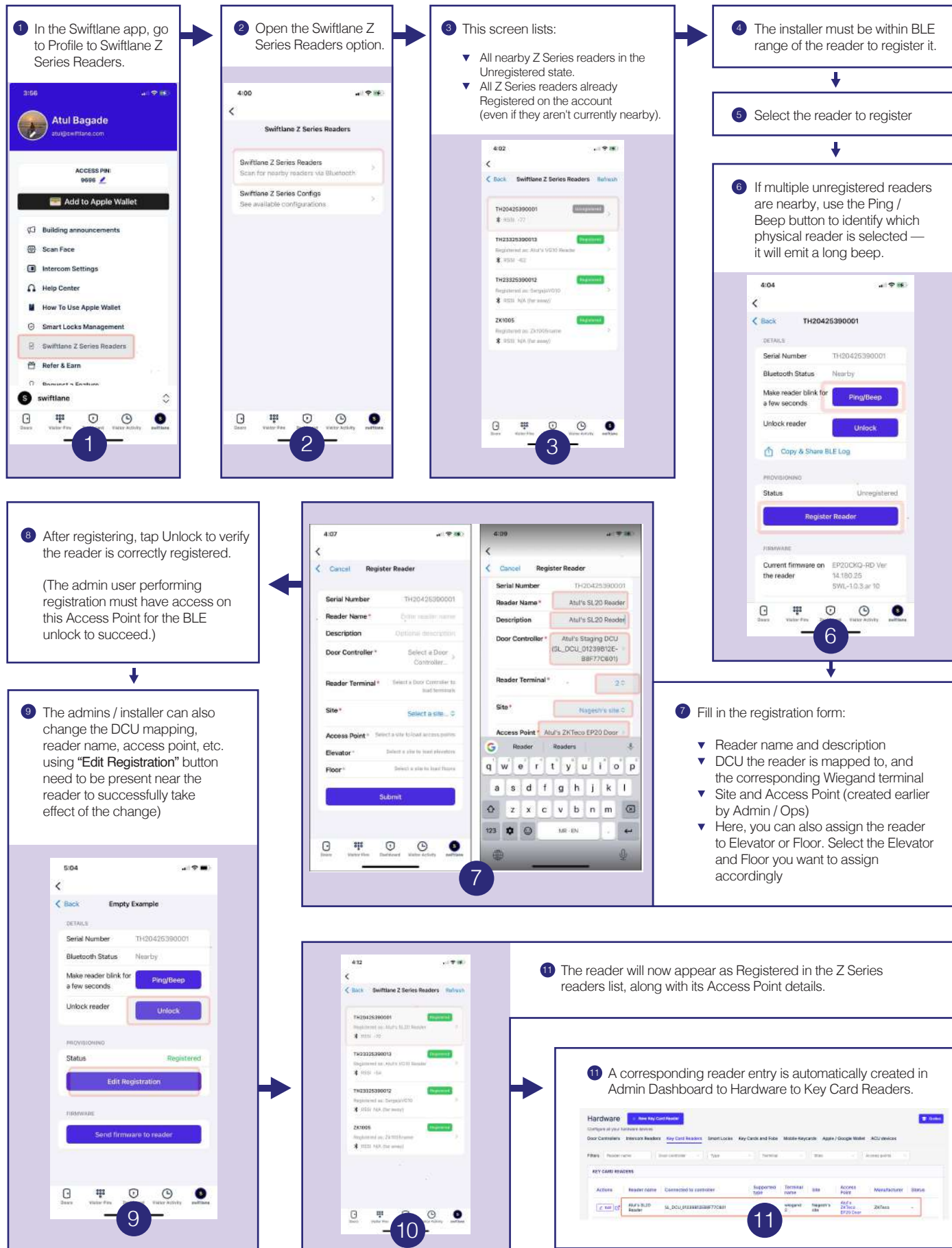


NOTE: Wiring methods used shall be in accordance with the National Electrical Code, ANSI/ NFPA 70.

4 Using And Testing The Reader



5 Registering Card Reader



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.

6 FCC + CE

"Hereby, Swiftlane 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

the instructions, may cause harmful interference to radio communications. 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.

"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."

7 Frequency Bands And Maximum Output Power

Frequency bands	Maximum output power
2402MHz - 2480MHz	7.08dBm
13.56MHz	4.21 dBuA/m@10m

8 Certificate Information

