

4-Door Central Locking & Power Windows Control System

Product Specification Sheet | Model: CCWLW01 Series

Product Images

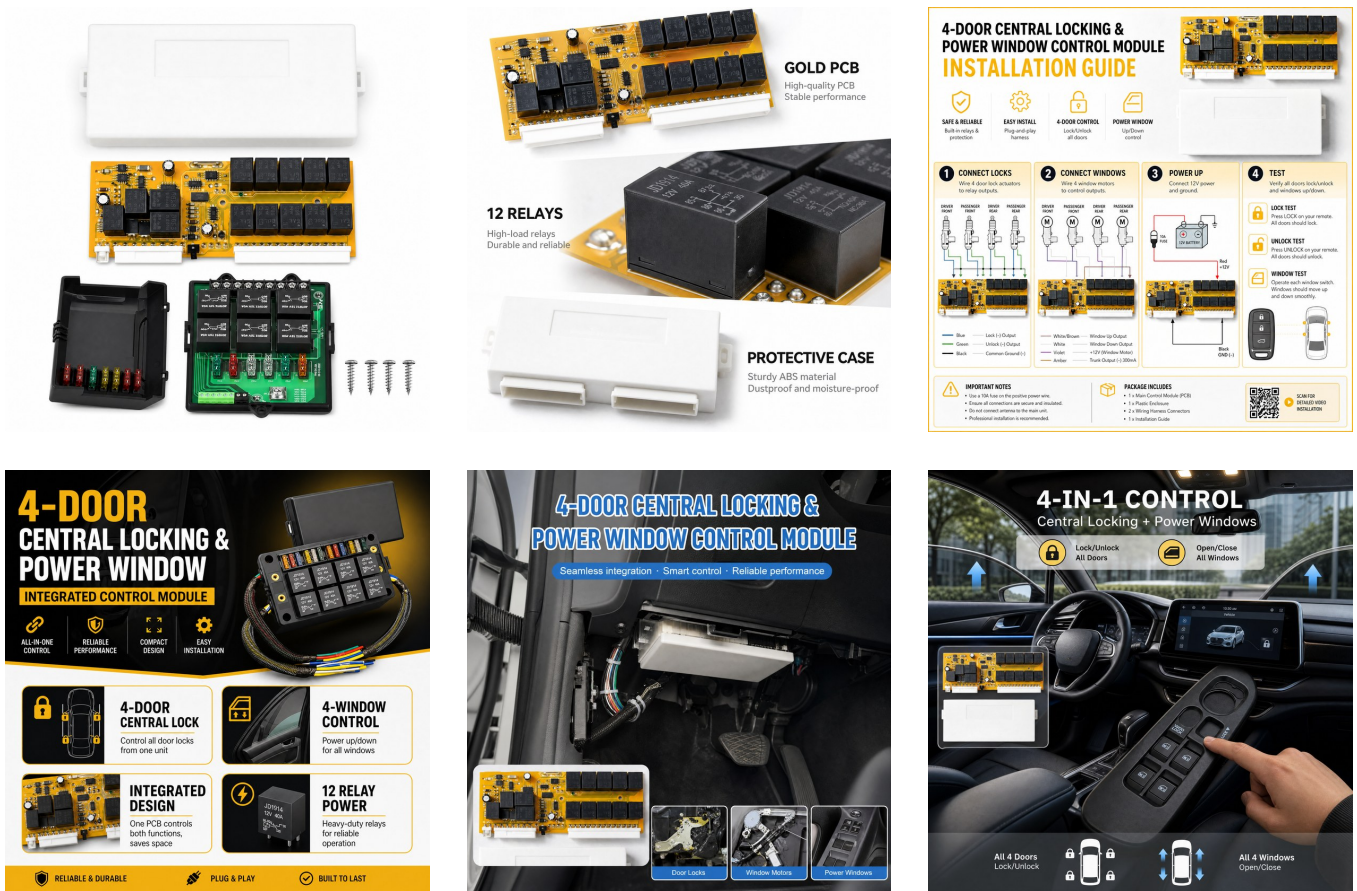


Fig. 1-6: CCWLW01 Series — 4-Door Central Locking & Power Windows Control System components

Product Overview

The **CCWLW01 Series 4-Door Central Locking & Power Windows Control System** is a universal, high-performance automotive security and convenience solution designed for 12V vehicles. Manufactured by **Suzhou Shengxin Electronic Technology Co., Ltd**, this system integrates **keyless entry**, **remote central door locking**, and **automatic power window control** into a single intelligent module. The main control unit features a durable **ABS plastic housing** that provides excellent thermal and impact resistance. Operating at **433.92 MHz** with a reception range of up to **100 meters** in open areas, this system delivers reliable performance across a wide temperature range (-30°C to +70°C). The system is universally compatible with most 12V DC vehicles including sedans, SUVs, vans, pickup trucks, and light commercial vehicles.

Technical Specifications

1. Main Control Unit (Central Locking Module)

Parameter	Specification
Housing Material	High-grade ABS plastic (Black)
Working Voltage	DC 12V ($\pm 3V$)
Static / Standby Current	≤ 10 mA
Operating Current	0.15 – 2.22 A
Max Output Current (Locking)	10 A
Max Output Current (Flashing Light)	7.5 A
Max Output Current (Siren)	10 A
Operating Frequency	433.92 MHz
Receiving Sensitivity	-108 dBm
Receiving Distance (Open Area)	≥ 100 meters
Working Temperature	-30°C to +70°C
Connector Interface	VH12P (12-pin) / VH13P (13-pin)
Siren Sound Level	108 dB
Code Matching Type	Self-learning (rolling code)
Dimensions (approx.)	94 x 62 x 26 mm

2. Remote Control (Key Fob)

Parameter	Specification
Material	ABS plastic, waterproof integrated design
Working Voltage	6V / 12V
Static Current	≤ 1 μ A
Operating Current	≤ 6 mA
Transmission Power	10 dBm
Operating Frequency	433.92 MHz
Battery Type	23A / 27A 12V Alkaline
Buttons	Lock, Unlock, Trunk Release, Mute, Panic
Quantity Included	2 remote controls per kit

3. Door Lock Actuators (4-Door Set)

Parameter	Specification
Configuration	1 x Master (5-wire) + 3 x Slave (2-wire)
Design	T-shaped, 360° rotatable head
Material	Metal / plastic composite
Stroke Length	18 mm \pm 1 mm
Movement Force	32 N \pm 4 N (\sim 3 kg push/pull)
Endurance Life	$\geq 100,000$ cycles

Water Resistance Rating	IP54
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4. Power Window Control Module

Parameter	Specification
Material	Black ABS thermal cover
Power Supply	DC 12V
Operating Temperature	-30°C to +70°C
Max Output Current	10 A
Window Control Channels	4-door car windows + sunroof
Closing Sequence	FL → FR → RL → RR (sequential)
Connection Type	Simple 2-wire connection
Safety Feature	Auto-stop on obstruction detection
Integration	Compatible with car alarm & keyless entry systems

Key Features

- **Remote Keyless Entry** — Lock and unlock all 4 doors remotely via 433.92 MHz RF remote control with a range of up to 100 meters in open areas.
- **Automatic Power Window Roll-Up** — When arming the system, all 4 power windows automatically close in sequence (Front-Left → Front-Right → Rear-Left → Rear-Right), preventing rain damage or theft through open windows.
- **Central Door Locking** — Single-button control of all 4 door locks simultaneously. Compatible with both electric and pneumatic central locking systems.
- **Remote Trunk Release** — Dedicated button on the remote control for convenient trunk/boot opening without leaving the driver's seat.
- **Direction Light Flashing Confirmation** — Double-flash visual feedback confirms successful lock and unlock operations.
- **Car Locator / Vehicle Find Function** — Activates flashing hazard lights to help locate the vehicle in crowded parking lots.
- **Anti-Hijack Protection** — Automatically unlocks doors in emergency situations; manual panic button triggers 108 dB siren to deter threats.
- **Obstruction Detection (Safe Mode)** — Window roll-up automatically stops when resistance is detected, preventing injury or damage.
- **Self-Learning Code Matching** — Rolling code technology prevents signal interception and unauthorized access. Easy pairing of additional remote controls.
- **Durable ABS Housing** — High-impact ABS plastic enclosure protects internal electronics from vibration, temperature extremes, and moisture.
- **Universal Compatibility** — Designed to work with most 12V DC vehicles: sedans, SUVs, MPVs, vans, pickup trucks, and light commercial vehicles.
- **Wide Temperature Range** — Reliable operation from -30°C to +70°C, suitable for extreme climates worldwide.

Functions Overview

Function	Description	Trigger
Remote Lock	Locks all 4 doors + arms alarm + rolls up windows	Press LOCK button
Remote Unlock	Unlocks all 4 doors + disarms alarm	Press UNLOCK button
Trunk Release	Remotely opens trunk/boot	Press and hold TRUNK button
Silent Arm/Disarm	Lock/unlock without siren chirp	Press MUTE button
Panic Alarm	Triggers 108 dB siren + hazard lights	Press PANIC button
Car Locator	Flashes direction lights to locate vehicle	Quick-press LOCK twice
Auto Window Close	Sequentially rolls up all windows	Automatic on LOCK
Anti-Hijack	Auto-unlocks doors on impact/emergency	Automatic (sensor trigger)
Shock Warning	Short siren burst on minor impact	Automatic (shock sensor)
Full Alarm	Continuous siren + flashing lights on break-in	Automatic (door/ignition trigger)

Applications & Scenarios

The CCWLW01 Series system is suitable for a wide range of vehicle types and usage scenarios:

- **Passenger Vehicles:** Sedans, hatchbacks, SUVs, MPVs, and coupes requiring keyless entry and automatic window control upgrades.
- **Commercial Fleet Vehicles:** Delivery vans, service trucks, and company cars where centralized locking and remote access improve operational efficiency and security.
- **Ride-Sharing & Taxi Services:** Enhanced driver convenience and passenger safety through one-touch central locking and automatic window management.
- **Aftermarket Upgrades:** Ideal for older vehicles without factory-installed central locking or power window automatic closing — universal fitment ensures broad compatibility.
- **Vehicle Security Enhancement:** Adds a complete alarm system with shock sensor, siren, and anti-hijack features to vehicles lacking OEM security systems.
- **Fleet Rental Operations:** Simplifies vehicle handover and return processes with reliable remote lock/unlock and consistent security across all fleet units.
- **Extreme Climate Regions:** Wide operating temperature range (-30°C to +70°C) makes it suitable for deployment in desert, tropical, and arctic environments.

Package Contents

No.	Item	Qty	Description
1	Main Control Unit	1 pc	Central locking & window control module, ABS housing
2	Remote Control Key Fobs	2 pcs	433.92 MHz, waterproof, with battery
3	5-Wire Master Actuator	1 pc	For driver's door (master lock control)
4	2-Wire Slave Actuators	3 pcs	For passenger and rear doors
5	Siren Speaker	1 pc	108 dB output, weather-resistant
6	Shock Sensor	1 pc	Adjustable sensitivity, DC 12V
7	LED Indicator	1 pc	With extension cable for dashboard mounting
8	Main Wiring Harness	1 set	Color-coded wires with VH12P/VH13P connector

9	Window Control Wiring	1 set	4-channel window motor connection harness
10	Metal Mounting Brackets	4 pcs	For actuator installation on door frames
11	Metal Connecting Rods	4 pcs	For actuator-to-lock mechanism linkage
12	Screws, Clips & Hardware	1 set	Complete installation fasteners kit
13	User Manual / Wiring Diagram	1 pc	English, with detailed installation guide

Installation & Usage Guide

Important: Professional installation by a qualified automotive electrician is **strongly recommended**. The system involves wiring connections to the vehicle's electrical system, door mechanisms, and ignition circuit.

- **Step 1 — Preparation:** Disconnect the vehicle battery negative terminal before starting. Read the complete wiring diagram provided in the user manual. Verify all kit components are present.
- **Step 2 — Mount the Control Unit:** Install the main control module behind the dashboard or under the glove compartment, away from heat sources, moisture, and moving parts. Secure with provided brackets or cable ties.
- **Step 3 — Install Door Actuators:** Mount one actuator inside each door panel. Connect the master (5-wire) actuator to the driver's door and the slave (2-wire) actuators to the remaining three doors. Attach metal rods to the existing lock mechanism and secure brackets firmly.
- **Step 4 — Connect Wiring Harness:** Route and connect the main wiring harness from the control unit to each actuator, following the color-coded wiring diagram. Connect to the vehicle's 12V constant power, ignition-switched power, direction light circuits, and door trigger wires.
- **Step 5 — Power Window Integration:** Connect the window control module wiring to each door's power window motor circuit. The module connects with simple 2-wire integration per door.
- **Step 6 — Install Siren & Sensors:** Mount the siren in the engine bay (facing downward to prevent water accumulation). Install the shock sensor securely to the vehicle body/chassis. Place the LED indicator on a visible dashboard location.
- **Step 7 — Power Up & Test:** Reconnect the battery. Program the remote controls using the self-learning procedure (see manual). Test all functions: lock/unlock, window roll-up, trunk release, siren, shock sensor sensitivity, and direction light flashing.
- **Step 8 — Final Adjustment:** Adjust shock sensor sensitivity as needed. Verify all door actuators operate smoothly without binding. Secure all loose wiring with cable ties.

Daily Operation

- **Locking:** Press the **LOCK** button on the remote — all doors lock, windows roll up automatically, and the alarm is armed.
- **Unlocking:** Press the **UNLOCK** button — all doors unlock and the alarm is disarmed.
- **Trunk Release:** Press and hold the **TRUNK** button for 2 seconds to remotely open the trunk.
- **Silent Mode:** Press the **MUTE** button to lock/unlock without the siren chirp confirmation.
- **Panic Alarm:** Press and hold the **PANIC** button to trigger the 108 dB siren and hazard lights.
- **Car Finder:** Quickly press the **LOCK** button twice to flash direction lights and locate your vehicle.

Ordering Information

Item	Details
Model Number	CCWLW01



Product Name	4-Door Central Locking & Power Windows Control System
Brand	SHENGXIN / OEM available
MOQ	Negotiable (samples available)
Packaging	Color box / Neutral packing / Custom branding available
Certification	CE, RoHS, FCC (upon request)
Warranty	12 months from date of purchase
Lead Time	7-15 working days (depending on order quantity)

Contact Information

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For inquiries, samples, or OEM/ODM cooperation, please contact us. Custom branding and packaging options are available for bulk orders.