

KinCony Gateway User Guide

1. Introduction

The KinCony Gateway is a Control4 DriverWorks driver designed as a dedicated communication bridge between KinCony intelligent hardware modules and the Control4 smart home system. It implements bidirectional transparent transmission of KCSv3 protocol commands via TCP port **50088**, with built-in features including authorization activation, automatic disconnection reconnection, and transmission flow control. It can centrally mount all types of KinCony terminal devices such as relays and dry-contact sensors, providing a stable communication channel for sub-devices.

This driver is compatible with all KinCony gateway and controller products that support the KCSv3 protocol.

2. Trial Product Key

The driver provides a **24-hour full-feature trial activation key**. You can directly copy the key below and paste it into the **Product Key** property to activate the trial:

KinCony-C4M9W-WPRDG-QBB3F-VM9K8-KDQ9Y

- The trial period starts immediately after successful activation and lasts for **24 hours**.
 - All functions including data transparent transmission, buffer scheduling and debug logging are fully available during the trial period.
 - After the trial expires, please contact the driver developer to obtain a formal permanent activation key.
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3. Features

- **Bidirectional TCP transparent transmission** – fully compatible with all KinCony devices supporting the KCSv3 ASCII protocol.
 - **Dual authorization mechanism** – 24-hour trial activation and formal activation bound to the Control4 device MAC address.
 - **Automatic reconnection mechanism** – 5-second periodic retry after disconnection to ensure continuous and stable communication.
 - **Configurable transmission buffer** – adjustable sending interval to avoid packet loss caused by concurrent commands.
 - **Built-in debug logging** – automatically deactivates after 15 minutes to reduce system resource usage.
 - **Real-time network status monitoring** – visual display of IP address, port number and connection status.
 - **Multi-device compatibility** – supports simultaneous mounting of relays, sensors and other terminal sub-devices.
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4. Prerequisites

- Control4 home controller running **OS 2.8.0 or higher**.
- KinCony gateway/controller device with **KCSv3 protocol support** (e.g., KC868-A64, KC868-A32).

- **Stable TCP/IP network connectivity** between the Control4 system and KinCony device, with **port 50088** unblocked by firewalls.
- A valid product activation key (trial or full version).

5. Installation & Device Setup

5.1 Import Driver

1. Open your project in Control4 Composer.
2. Navigate to **File > Import Driver** and select the **KinCony Gateway.c4z** file.
3. The driver will be added to your project device library under the **Motorization** category.

5.2 Add Device to Project

1. Go to the **System Design** tab.
2. Locate **KinCony Gateway** under the manufacturer list and drag it into your project room.
3. Open the **Connections** tab, configure the **Network** IP address to connect to your KinCony hardware device via port **50088**.
4. Bind the KinCony Gateway control connection to corresponding sub-device drivers as required for data transmission.

6. Properties Configuration

All driver settings are managed in the **Properties** tab within Composer. These parameters define authorization, network and transmission behavior.

6.1 Property Details

Property Name	Type	Description	Default Value
Product Key	String	Enter the activation key for trial or formal authorization.	Empty
Activation Status	Read-only String	Displays current activation state: false , 24-hour trial prompt , true or expiration prompt.	false
Control4 MAC Address	Read-only String	Displays the unique MAC address of the Control4 controller, used for formal activation binding.	Auto-populated
Debug Mode	Drop-down List	Enables detailed communication log output. Automatically deactivates after 15 minutes.	Off
IP Address	Read-only String	Displays the IP address of the connected KinCony gateway. Shows Network not connected when offline.	Empty
Port	Read-only String	Fixed TCP communication port for the KCSv3 protocol.	50088

Property Name	Type	Description	Default Value
Network Status	Read-only String	Displays current TCP connection state: true = online, false = offline.	false
Transmission Interval (ms)	Ranged Integer	Interval for buffered command sending, range 20–5000 ms. Used to avoid concurrent command congestion.	50
Version	Read-only String	Displays the current firmware version of the driver.	1.0

6.2 Supported Sub-device Types

This gateway driver supports transparent transmission for all KinCony KCSv3 protocol devices, including but not limited to:

- KinCony Light Driver
- KinCony Relay Driver
- KinCony Contact Driver
- All KC868 series relay and I/O expansion modules

7. Troubleshooting

Issue	Troubleshooting Steps
Activation Failure	<ol style="list-style-type: none"> 1. Verify that the Product Key is entered correctly without extra spaces or incorrect characters. 2. For trial activation: confirm the trial key matches the officially provided string exactly. 3. For formal activation: confirm the product key is generated based on the displayed Control4 MAC Address. 4. Restart the driver and recheck the activation status.
Network Connection Failure	<ol style="list-style-type: none"> 1. Confirm the KinCony gateway device is powered on and connected to the same LAN as the Control4 controller. 2. Verify that TCP port 50088 is not blocked by any firewall or network security policy. 3. Check the IP Address property to confirm the device address is configured correctly, The IP Address should be set as a static IP and DHCP should be disabled. 4. The driver will automatically retry reconnection every 5 seconds after disconnection.
Abnormal Data Transmission	<ol style="list-style-type: none"> 1. Confirm the Activation Status is valid (trial active or true); all data transmission is disabled when the driver is unactivated. 2. Adjust the Transmission Interval (ms) to a larger value to rule out packet loss caused by excessively fast sending.

Issue	Troubleshooting Steps
No Debug Output	<ol style="list-style-type: none"> 3. Enable Debug Mode to check data sending and receiving logs in the Lua console. 1. Ensure Debug Mode is set to Print. 2. Reopen the Lua console window to refresh log output. 3. Note that debug mode automatically turns off after 15 minutes to reduce resource usage.
Frequent Disconnection and Reconnection	<ol style="list-style-type: none"> 1. Check the network stability between the Control4 controller and the KinCony gateway device. 2. Confirm the KinCony device firmware is updated to the latest version. 3. Eliminate IP address conflicts in the local area network.

8. FAQ

Q1: What is the trial period for the driver?

A1: The trial period is **24 hours**, starting from the moment the trial key is successfully activated.

Q2: How do I obtain a formal permanent activation key?

A2: After the trial expires, contact the driver developer or KinCony support. Provide the **Control4 MAC Address** displayed in the driver properties to generate a binding key.

Q3: Can this gateway driver work with non-KinCony devices?

A3: No. This driver is specifically designed for KinCony hardware modules that support the KCSv3 protocol. It does not support third-party devices.

Q4: Why is the Transmission Interval important?

A4: The transmission interval controls how frequently buffered commands are sent. If set too low, multiple concurrent commands may cause packet loss. Increasing the interval helps ensure reliable communication.

Q5: Does the driver support multiple KinCony gateways in one project?

A5: Yes. You can add multiple instances of the KinCony Gateway driver, each bound to a different KinCony device, provided each uses a unique IP address.

9. Copyright & Version

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