



linkIT-Control4

Link your motors by integrating Gaposa radio motors into Control4's industry-leading smart home control solutions.

LinkIT allows for group and individual motor control. Simply connect by using our approved connection cable to your controller and install the easy to use integration driver. Each LinkIT can support up to 24 channels depending on model number.



TECHNICAL CHARACTERISTICS

RS232 communication protocol

Individual or group control

16 or 24 individual channels

Tilting mode

Intermediate position

LED for feedback

Reset and programming button.

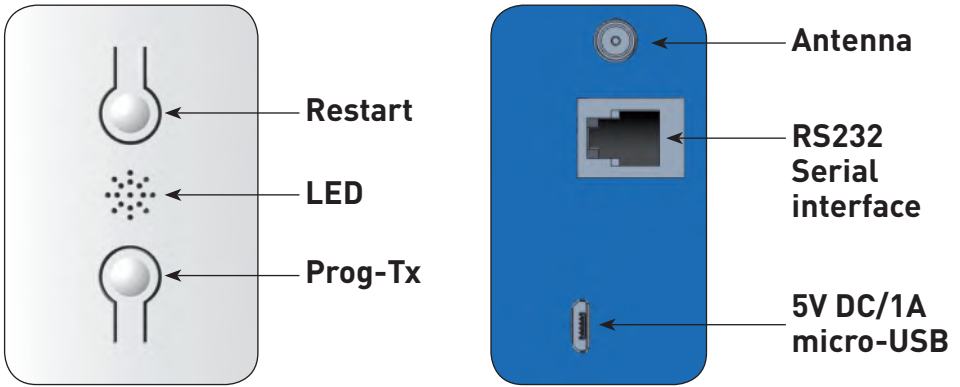


Hardware

| Reference | Channels | Country |
|---------------|----------|---------|
| linkIT-434-16 | 16 | USA |
| linkIT-434-24 | 24 | USA |
| linkIT-868-16 | 16 | Europe |
| linkIT-868-24 | 24 | Europe |

Comes with 2A, 5V micro-USB power supply

It is possible to install more than one LinkIT provided your Controller has the requisite number of RS232 ports or a Remote RS232 - TCP/IP Converter is used. No daisy chain possible.



| LED status | Green | On first power up |
|------------|-------|---|
| | Red | When radio transmission is in progress |
| | Blue | When the optional wireless/cloud service is connected |

RJ9 – DB9 connection



| USAGE | RJ9 PIN | DB9 PIN |
|--------------|---------|---------|
| 5 Volt Power | 1 | NA |
| TXD | 2 | 2 |
| RXD | 3 | 3 |
| GND | 4 | 5 |

Note: RS232 is transmitted via RJ9 Socket.

Warning: check for crossover of pins 2 & 3 depending on the equipment used.

5V Pin is optional and is provided to allow LinkIT to be powered via the RJ9 socket.

This is for advanced installation only and should not be used alongside the 5V micro USB input.

Cabling distance

15 meters or more if special cables are used.

Cable options:

| Reference | Description |
|-----------|---------------------------|
| | Serial connector with RJ9 |

CONTROL4 DRIVER:

Control4 version required: 2.9.0 minimum

Initial release date: 01-01-2020

Last modified: 01-01-2020

Driver functions

This driver enables you to use the Gaposia LinkIT in a Control 4 installation. The driver consists of a main gateway driver which communicates with LinkIT by RS232. Slave drivers then provide control over 1 motor (blind) address. The driver can control up to 16 or 24 motors.

Important - Trying to control more motors than your LinkIT model can control will result in a failure to operate.

Maximum number of linkITs

It is possible to install more than one LinkIT provided your Controller has the requisite number of RS232 ports or a Remote RS232 - TCP/IP Convertor is used.

Driver installation



Download the driver from <http://www.gaposia.it/eng/linkit/>

Extract the drivers from the zip file to MyDocuments/Control4/Drivers folder on your PC.

First Installation

If this is your first installation using the driver, please make sure you read the whole of this manual before touching any equipment.

We highly recommend setting up the driver in your office or shop first before installing it on site.

The RJ9 cable should be connected between the LinkIT and the Control4 controller before powering up. With the RS232 cable in place ensure LinkIT is powered from a 2 Amp 5Volt USB power source.

CONFIGURING THE DRIVER

Important - You must install the Gaposa Blind RS232 interface driver first before adding any slave drivers.

Add master driver

The screenshot shows the 'Items' configuration window with the search bar containing 'gaposa'. Below the search bar, there are checkboxes for 'Local' (checked), 'Online', and 'Certified Only', along with a 'Clear Search' button. The 'Category' dropdown is set to '-- All Categories --'. The 'Type' dropdown is set to '-- All Types --'. The 'Manufacturer' dropdown is set to '-- All Manufacturers --'. The 'Control Method' dropdown is set to 'All Methods' and the 'Sort' dropdown is set to 'Relevance'. The search results list two items: 'Gaposa Blind' and 'Gaposa Blind RS232 Interface', both with a 'Local' status indicator.

Bind the Driver to the correct RS232 port on the controller

The screenshot shows the 'Control & Audio Video Connections' window for the 'Gaposa Blind RS232 Interface'. It displays a table of connections and a list of output devices.

| Name | Type | Connection | Input/Output | Connected To |
|------------------------|---------|--------------|--------------|----------------------------|
| Control Inputs | | | | |
| Serial RS-232 | Control | RS_232 | Input | CA-1->SERIAL |
| Control Outputs | | | | |
| Gaposa Blind Proxy | Control | GAPOSA_BLIND | Output | Blinds->Gaposa Blind Proxy |

| Device | Name | Location | Connections |
|--------|--------|----------|---|
| CA-1 | SERIAL | Room | Gaposa Blind RS232 Interface->Serial RS-232 |

Add the slave blind driver to the room the blind is located in

The screenshot shows the 'Items' configuration window with the search bar containing 'gaposa'. Below the search bar, there are checkboxes for 'Local' (checked), 'Online', and 'Certified Only', along with a 'Clear Search' button. The 'Category' dropdown is set to '-- All Categories --'. The 'Type' dropdown is set to '-- All Types --'. The 'Manufacturer' dropdown is set to '-- All Manufacturers --'. The 'Control Method' dropdown is set to 'All Methods' and the 'Sort' dropdown is set to 'Relevance'. The search results list one item: 'Gaposa Blind' with a 'Local' status indicator.

Configure the blind driver; see below for details:

| Advanced Properties | | | |
|------------------------------|---------------|---------------|-----|
| Properties | Actions | Documentation | Lua |
| Driver Version | 200 | | |
| Blind Channel ID | 1 | | |
| Set Level | Not available | | |
| Can Stop | Yes | | |
| Open/Close Travel Time (sec) | 15 | | |
| Debug Mode | Off | | |
| Debug Subsystems | | | |
| Debug Level | 0 | | |

PAIRING MOTOR

Before a motor can be controlled LinkIT must be paired to the motor. There are two options:

New Motor (No handheld remote)

1. Ensure you have added the LinkIt drivers to control 4 first.
2. Select Channel ID (Starting at 1) -
3. Double Click the Driver to open the control view and press the up or down button.
4. Press Prog-TX button or switch to the action tab and use the soft button.
5. Wait for the motor to go up or down
6. Switch to control view:
7. Press up if the motor travelled up and down if the motor travelled down.
8. Programming should now be complete.
9. Repeat using a different channel ID depending on the number of motors you wish to control.

To control a group of motors, add the same channel ID to all motors in the group.

Existing Motor (With handheld remote)

Ensure you have added the LinkIt drivers to control 4 first.

1. Select Channel ID (Starting at 1) -
2. Press Prog-TX on the remote control this will place the motor in linking mode
3. Switch to control view:
4. Press up if the motor travelled up and down if the motor travelled down.
5. Programming should now be complete.

CONFIGURATION OPTIONS

Driver Version:

Version of Currently installed driver

Blind Channel ID

Each Motor that requires control will need a separate ID (see warning above for the maximum allowed channel allocation)

Set Level

Control4 can simulate opening the blind to a pre-set position (determined by percentage open). This is done by timing the travel from fully closed to fully open. To use this feature the travel time must be entered.

If you wish to disable this, please set this to “not available” and the open/close travel time to “0”.

Stop

Stop function Enabled / Disabled

Open/Closed Time

Set the value to be used with Set Level

Debug Options:

These are functions reserved for technical support do not alter these unless directed to do so.

Allocating a channel ID:

1. When you have correctly allocated a Blind Channel ID in the properties tab, switch to the Actions tab. (See screenshot below)
2. Press Add Motor and the blind will move up or down.
3. Follow the motor Handset pairing guide to complete the addition of the LinkIT as a transmitter.
4. To delete follow the guide and instead use the Delete Motor option.

To add to an existing motor, open the channel with the handset first.

ADVANCED ACTIONS

Tilt:

Allows for testing of the tilt operation in motors with this feature

Interim Position:

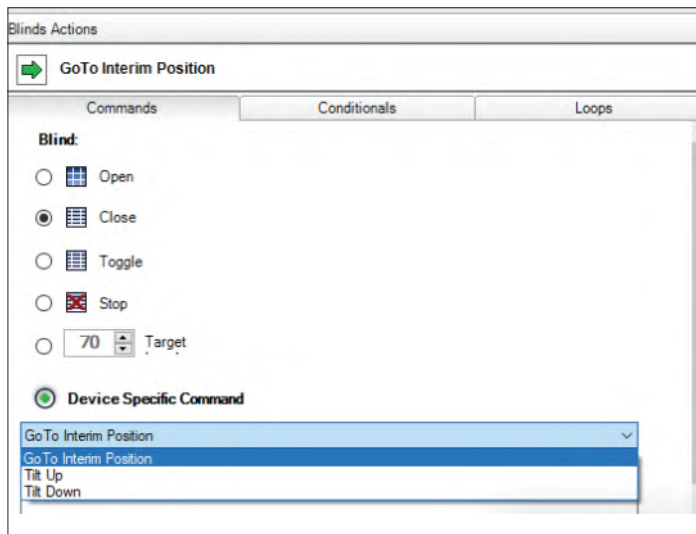
Allows for testing of the interim position in motors with this feature.

To operate either option you will require advanced programming see below.

Advanced Programming:

The driver supports integration with third party keypads / lighting control systems. In addition to the standard features of Open/Close/Stop the driver also supports Tilt and Interim position.

The advanced options will need to be connected to a user interface though custom programming.





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