

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

- ☐ Individual or group control
- ☐ 16 or 24 individual channels
- ☐ Tilting mode
- ☐ Intermediate position
- ☐ LED for feedback
- ☐ Reset and programming buttons
- ☐ Cables available for easy connection

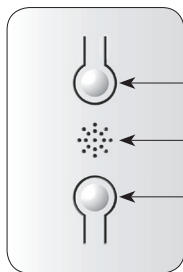


Hub Input Voltage	5V
Hub Input Power	0.3 A Max.
Frequency	434.15 MHz
Connection	Wi-Fi
Wi-Fi network	2.4 GHz only
Range	30 mt / 98 feet
Protection Rate	IP20
Operation Temperature	0°C to 60°C / 32°F to 140°F

Hardware

Reference	Channels	Country
linkIT-434-16	16	USA
linkIT-434-24	24	USA

Comes with 2A, 5V micro-USB power supply and DB9 adapter cable. 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



**Device
reboot
button**

LED

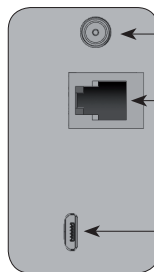
Reset button

- Quick Press**

Requests a replacement device config (Transmitter IDS/ Number of Channels / Linkit or Roll.App)

- Long press**

Resets Wifi. Removes current wifi config and starts the captive portal



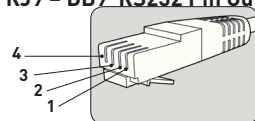
Antenna

**RS232
Serial
interface**

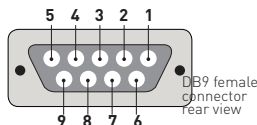
**5V DC/1A
micro-USB**

LED status	Green	Booting up
	Flashing Blue	waiting for Wi-Fi network
	Blue	Wi-Fi connected
	Red	Command sent for UP, DOWN, STOP or PRESET

RJ9 – DB9 RS232 Pin Outs



RJ9 male connector



DB9 female connector rear view

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

Note: RS232 connection is made 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 Gaposa 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.gaposa.it/eng/linkit/>
Extract the drivers from the zip file to MyDocuments/Control4/Drivers folder on your PC.

First Installation

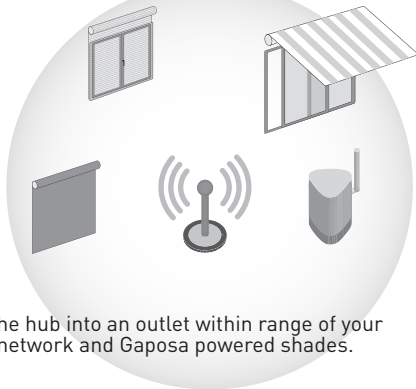
If this is your first installation using the driver, please make sure you read the whole of this manual before touching any equipment.

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.

Initiating the Hub Set-up

1



Plug the hub into an outlet within range of your Wi-Fi network and Gaposa powered shades.

3

Enter password to connect (Case sensitive):
GaposaInit

Enter the password for "GAPOSA-c045"

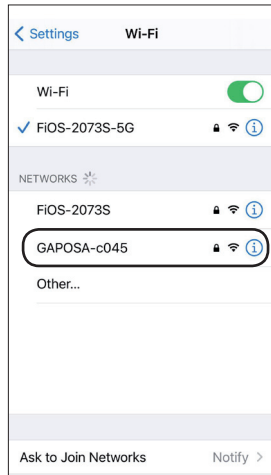
[Cancel](#) **Enter Password** [Join](#)

Password **Enter Password**

You can also access this Wi-Fi network by bringing your iPhone near any iPhone, iPad, or Mac which has connected to this network and has you in their contacts.

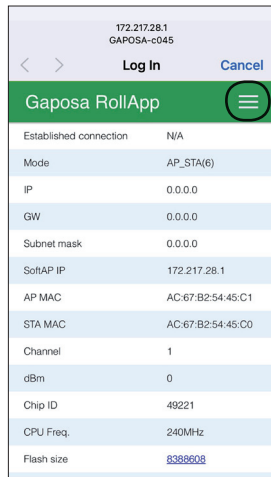
2

Open your Wi-Fi settings and connect to the network **GAPOSA-xxxx** (ex: GAPOSA-c045)



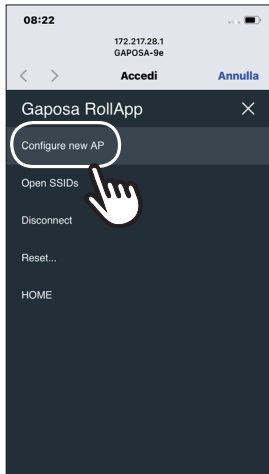
4

You will be taken to the network sign-in page, if not, you must sign into the network from settings. Click the **menu button** at the top right if on a mobile phone.



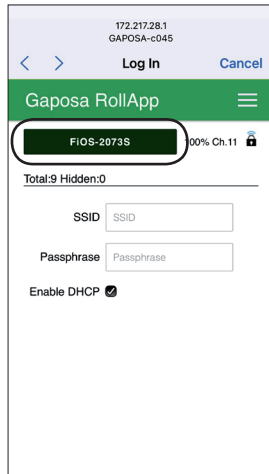
5

Click **Configure new AP**



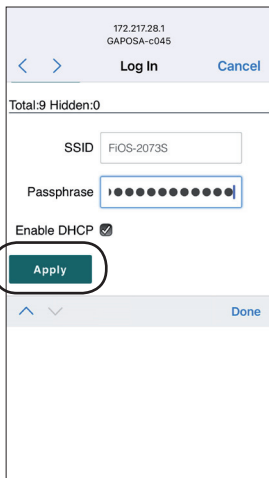
6

A list of visible WiFi networks appears. Please select your home WiFi network.



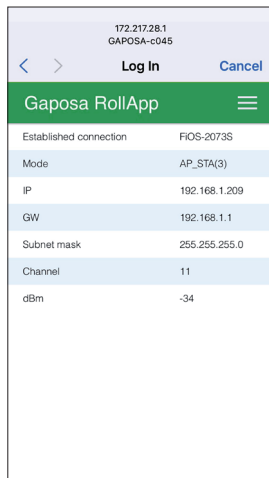
7

Enter your WiFi network password and click **Apply**



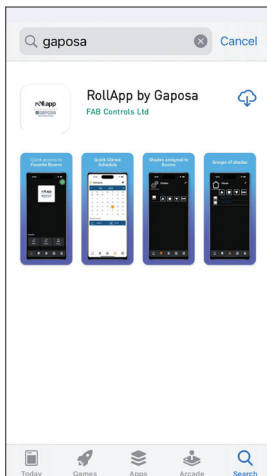
8

Exit out of the hub sign in page and reconnect to your home WiFi if it doesn't connect automatically.



9

Download the app from the app store. Search **RollApp**

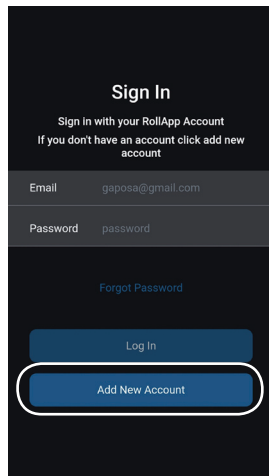


10

Open the app and create an account by clicking

Add New Account

The app will ask for location permissions. Please allow location use for sunset / sunrise control.

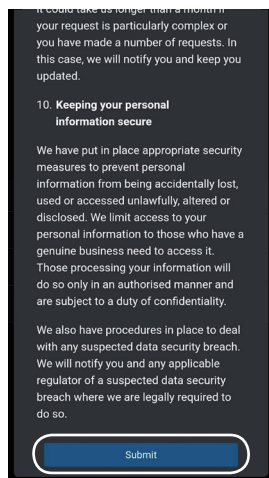


11

Fill out the form with your desired account information.

12

Read the privacy policy and press **Submit** to continue.



13

The app will find your location and auto fill your details. Please confirm this is all correct.

Location	
Site Name	GAPOSA USA
Address	3920 Providence Rd
Town	Newtown Square
County	Delaware County
State	Pennsylvania
Zip	19073
Country	US
Add Location	

14

Once you have created your account, please sign in using the credentials you just created.

Sign In

Sign In with your RollApp Account
If you don't have an account click add new account

Email

Password

[Forgot Password](#)

[Log In](#)


[Add New Account](#)

15

Scan the QR code or enter the serial number.
Click [Register Now](#)
-The app will ask to use the camera to take a picture of the QR code

Register Hub

Scan the QR Code on the base of your LinkIT to register your device.




Serial Number:

Device Name:

[Register Now](#)

16

The app is now setup and you can begin to add rooms and shades.



Favorite Rooms

[No Favorite Added](#)

[Home](#) [Add](#) [Rooms](#) [Settings](#)

CONFIGURING THE DRIVER For IP wireless connection

Important - You must install the Gaposa Blind RS232 IP interface driver first before adding any shade drivers. Add Gaposa Shade IP interface driver as pictured below:

The screenshot shows the Composer Pro 3.2.4 / OS Management 3.1.3 - (Local) interface. The left sidebar displays the System Design tree with the following structure:

- System
 - New Project
 - Home
 - House
 - Main
 - Poom
 - CA-1
 - Remote Hub
 - Gaposa Shade IP Interface**
 - Shades

The main window is divided into three panels:

- Properties** (Properties, Summary, List View):
 - Driver Status**
 - Driver Version: 102_Beta-1
 - Operational Status: OK
 - Configuration**
 - Poll Interval (seconds): 10
 - Port Number: 80
 - Serial Number: E868E708226C
 - Please locate this on the bottom of your Hub
 - Device Status**
 - Channel Limit: 32
 - Software Version: 2.1.5
 - WiFi Signal: -28
- Items** (Locations, Discovered, My Drivers, Search):
 - Local ☐ Online ☐ Certified [Advanced](#)
 - Category: All
 - Type: All
 - Manufacturer: All
 - Control: All
 - Driver Suggestions Sort: Relevance
 - Gaposa Shade Group
 - Gaposa | Blinds 5/6/2022
 - Gaposa Shade
 - Gaposa | Blinds 5/6/2022
 - Gaposa Shade RS232 Interface
 - Gaposa | others | Serial 5/6/2022
 - Gaposa Shade IP Interface**
 - Gaposa | others | IP 5/6/2022

Bind the Driver to the Linkit hub.
The hub serial # is located on the bottom of your hub or it can be retrieved from the Hub status on your Rollapp as pictured:

The Hub Status window displays the following information:

Name	LinkitWiFi
Serial	E868E708226C
Shade Limit	32
Frequency	434 MHz
IP Address:	10.1.10.65
Subnet:	255.255.255.0
Status:	✓
Wifi Signal:	📶

UnLink Hub

Bind the IP Driver to the IP controller as pictured:

Control4 Pro 3.2.4 / OS Management 3.3 - (local)

File Driver Go Tools Feedback Help

Connections

Control4V Network

IP Network

Zigbee Network

2Wire Network

IP Network Connections

Identify Discarded

Disconnect All IP Refresh

View as: Tree List

Device	Room	Type	Address Type	Address	IP Address
1 CA.1	Room	c4_contr	CA.1	c4_contr_ca1	10.1.10.251
Gaposa Shade IP K...	Room	c4_kus_gen	IP	c4_kus_gen_IP	10.1.10.251

Identify Room -> Gaposa Shade IP Interface

DriverWorks

Device identification to be sent from the Device controlled by this driver or Type the network address below.

10.1.10.68

Discarded

< Previous Next > Close

Total 2 / Identified 1

Available Devices

others

- c4_contr_ca1
- ca1500FF51382
- others
- un.schemas.uprg.org device InternetGatewayDevice.1
- un.schemas.uprg.org device InternetGatewayDevice.1
- un.schemas.uprg.org device XANDevice.1
- un.schemas.uprg.org device WPADevice.1

Total Available Devices 5

Add the shade driver to the room the blind is located in as pictured

Control4 Pro 3.2.4 / OS Management 3.3 - (local)

File Driver Go Tools Feedback Help

System Design

Properties Summary Live View

Properties

Blind Type: Shade

Blind Movement: Open-Close

Keypad Button: Open Key

Open: Closed

Advanced Properties

Properties Actions Documentation Live

Device Version: H21_beta.1

Operational Status: OK

Channel ID: 6.1

Enter the Bank and Channel ID, e.g. 6.1

Can Stop: No

Open/Close Travel Time (seconds): 8

Shade Configuration

Shading Mode: Off

Shading Subsystem:

Shading Level: 0

Status

Gaposa Shade Group

Gaposa Shade

Gaposa Shade

Gaposa Shade F232 Interface

Gaposa Shade F232 Interface

Gaposa Shade F232 Interface

Gaposa Shade F232 Interface

14 of 14

CONFIGURING THE DRIVER

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

Add master driver

Items

Locations | Discovered | My Drivers | Search

gaposa

☒ Local ☐ Online ☐ Certified Only [Clear Search](#)

Category:
-- All Categories --

Type:
-- All Types --

Manufacturer:
-- All Manufacturers --

Control Method: All Methods Sort: Relevance

Gaposa Blind

Janus 11/3/2019 5:13 PM **Local**

Gaposa Blind RS232 Interface

Janus 11/3/2019 5:13 PM **Local**

Bind the Driver to the correct RS232 port on the controller

Control & Audio Video Connections

Gaposa Blind RS232 Interface

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

RS_232 Output Devices

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

gaposa

☒ Local ☐ Online ☐ Certified Only [Clear Search](#)

Category:
-- All Categories --

Type:
-- All Types --

Manufacturer:
-- All Manufacturers --

Control Method: All Methods Sort: Relevance

Gaposa Blind

Janus 11/3/2019 5:13 PM **Local**

Configure the blind driver; see below for details:





Advanced Properties	
Properties	Actions
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 screen can be controlled from LinkIt/Control 4, the screen must be synched into RollApp.

1. Create a room
2. Into the room create the device
3. From the handheld remote already paired with the screen, move the screen to the middle. Press and hold in the sync button on the back of the remote until the screen starts moving. As it moves, let the sync button go and press the corresponding Up or DOWN button into Rollapp. Press submit and go to the next one.
4. Once you paired all the devices into Rollapp go to the SETUP page of Rollapp and open the "integration" section
5. Copy your ID channels and paste in the shade driver of your composer
6. Test you can control the devices from composer and C4 app. Before a motor can be controlled LinkIT must be paired to the motor. There are two options:
7. To control a group of motors, add the group driver and follow the instructions as indicated into C4 composer. *No more than 8 motors per group.

Integration

id	Location	Name	Stat
0,1	Office	Shade 1	
0,2	Office	Shade 2	
0,3	Office	Shade3	
0,4	Office	Shade 4	



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.



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