GAPOSA®

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	868.30 MHz
Connection	Wi-Fi
Wi-Fi network	2.4 GHz only
Range	30 mt
Protection Rate	IP20
Operation Temperature	0°C to 60°C / 32°F to 140°F

Hardware

Reference	Channels
linkIT-868-16	16
linkIT-868-24	24

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 Convertor is used. No daisy chain possible
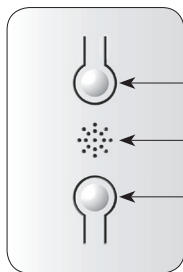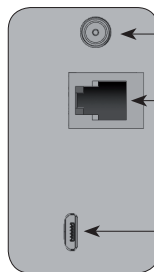
Device reboot button

LED

Reset button
- **Quick Press**
  Requests a replacement device config (Transmitter IDS/ Number of Channels / Linkit or Roll.App)
- **Long press**
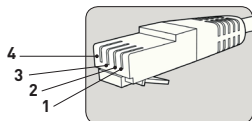 Resets Wifi. Removes current wifi config and starts the captive portal
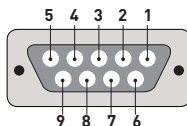
Antenna

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.

SCAN ME

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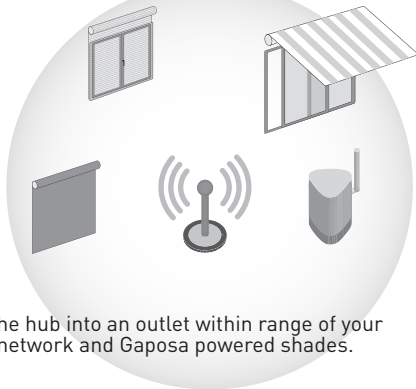
Plug the hub into an outlet within range of your Wi-Fi network and Gaposa powered shades.

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

‹ Settings	Wi-Fi

Wi-Fi	🟢
✓ FiOS-2073S-5G	🔒 📶 ⓘ

NETWORKS

FiOS-2073S	🔒 📶 ⓘ
GAPOSA-c045	🔒 📶 ⓘ
Other...	

Ask to Join Networks   Notify ›

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.
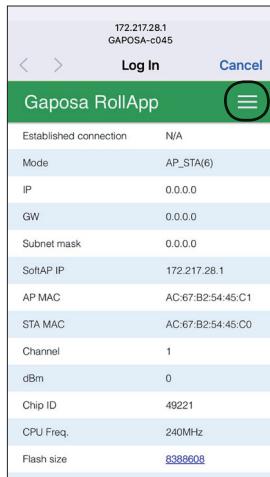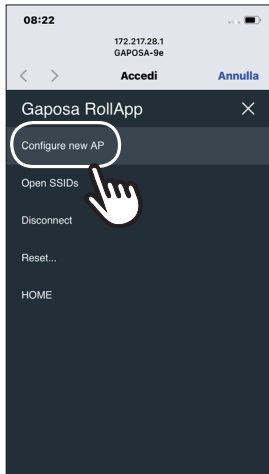
4

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.
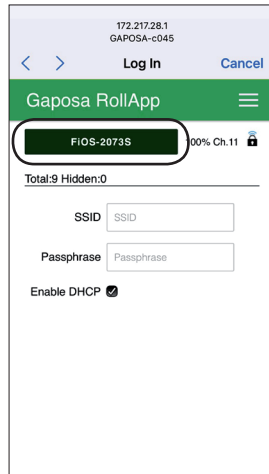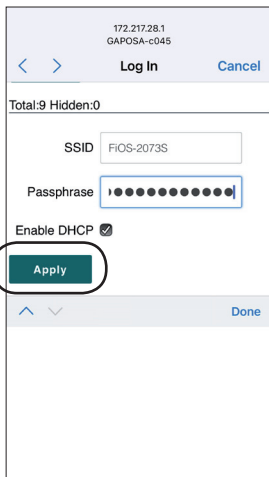
172.217.28.1
GAPOSA-c045

‹ ›	**Log In**	Cancel

Gaposa RollApp ≡

Established connection	N/A
Mode	AP_STA(6)
IP	0.0.0.0
GW	0.0.0.0
Subnet mask	0.0.0.0
SoftAP IP	172.217.28.1
AP MAC	AC:67:B2:54:45:C1
STA MAC	AC:67:B2:54:45:C0
Channel	1
dBm	0
Chip ID	49221
CPU Freq.	240MHz
Flash size	8388608

5

Click **Configure new AP**

6

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

172.217.28.1
GAPOSA-c045

< >   Log In   Cancel

Gaposa RollApp   ☰

FiOS-2073S   100% Ch.11 🔒

Total:9 Hidden:0

SSID   SSID

Passphrase   Passphrase

Enable DHCP ☑

7

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

172.217.28.1
GAPOSA-c045

< >   Log In   Cancel

Total:9 Hidden:0

SSID   FiOS-2073S

Passphrase   ••••••••••••

Enable DHCP ☑

Apply

∧ ∨   Done

8

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

172.217.28.1
GAPOSA-c045

< >   Log In   Cancel

Gaposa RollApp   ☰

Established connection	FiOS-2073S
Mode	AP_STA(3)
IP	192.168.1.209
GW	192.168.1.1
Subnet mask	255.255.255.0
Channel	11
dBm	-34
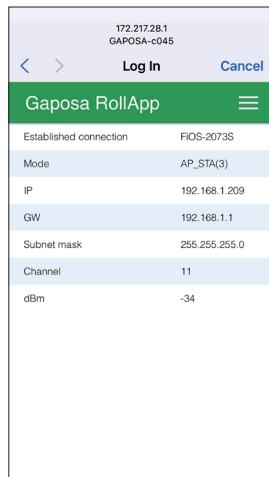
9

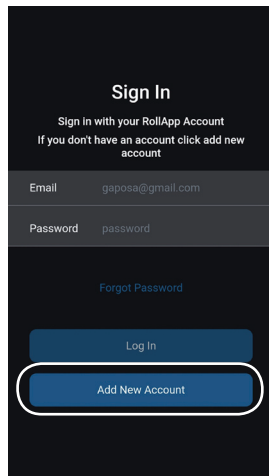Download the app from the app store. Search **RollApp**
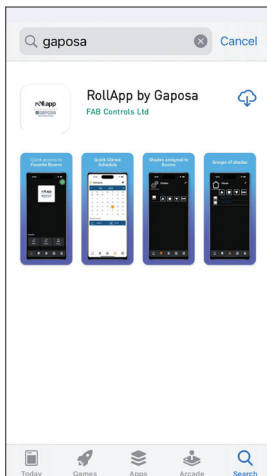
10

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.
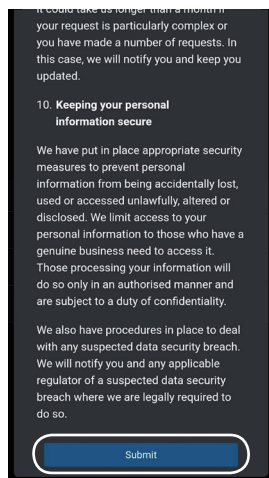
Sign In

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

| Email | gaposa@gmail.com |
| Password | password |

Forgot Password

Log In

Add New Account

11

Fill out the form with your desired account information.

roll.app

Sign Up
Sign up for a RollApp Account.

Name	Mr Gaposa
Email	gaposa@gmail.com
Password	password
Telephone	12345678910

Click to view - Privacy Policy

Register

Login

12

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

It could take us longer than a month if your request is particularly complex or you have made a number of requests. In this case, we will notify you and keep you updated.

10. **Keeping your personal information secure**

We have put in place appropriate security measures to prevent personal information from being accidentally lost, used or accessed unlawfully, altered or disclosed. We limit access to your personal information to those who have a genuine business need to access it. Those processing your information will do so only in an authorised manner and are subject to a duty of confidentiality.

We also have procedures in place to deal with any suspected data security breach. We will notify you and any applicable regulator of a suspected data security breach where we are legally required to do so.

Submit

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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

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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	gaposa@gmail.com
Password	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: AC67B25445C0

Device Name: Gaposa USA

Register Now

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

roll.app

GAPOSA AUTOMATION

Favorite Rooms

No Favorite Added

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:
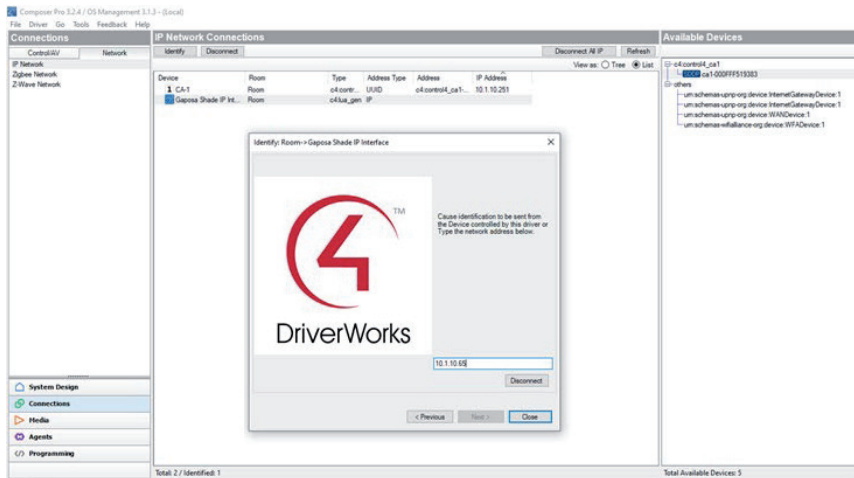

Bind the Driver to the Linkit hub.
The hub serial # is located on the bottom of your hub or it can be retrieved from the Hub status on your Rollapp as pictured:

Bind the IP Driver to the IP controller as pictured:

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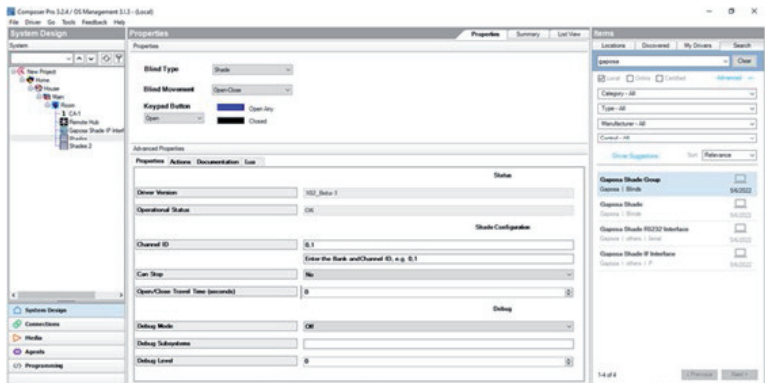
CONFIGURING THE DRIVER

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

Add master driver

Bind the Driver to the correct RS232 port on the controller

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

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 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.