

# LED Strip

View the expanded manual: http://aeotec.com/support

# IMPORTANT!

Z-Wave by the Z-Wave Alliance. It is crafted using Z-Wave Plus, the latest device version of Z-Wave. As such, if the product does not work with your gateway, please be sure to check with your gateway manufacturer that they have integrated this device with their gateway for full operation.

## ) Aeotec by Aeon Labs LED Strip.

Aeotec LED Strip is a multi-coloured LED Strip which allows control (on/off/dim/colour change) via wireless Z-Wave commands.

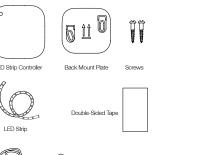
The LED Strip can also communicate securely via AES 128 wireless Z-Wave commands and supports Over-The-Air (OTA) firmware upgrades.

(2) Familiarise yourself with your LED Strip.

# Package Contents:

- 1. LED Strip Controller (x1)
- 2. Screws (x2
- 3. Back Mount Plate (×1)

- Power Adapter (×1)

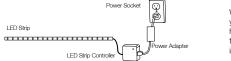


# Power Adapter

Network LED on LED Strip Controller will blink slowly to indicate it is ready to be paired to your Z-Wave network.

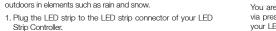
LED Strip

4. Now press the Action Button to toggle your LED strip on or off to ensure the connections between your LED Strip and its



## Install your LED Strip.

Strip Controller and the LED Strip. LED Strip can be installed inside or outside your home, but the LED Strip Controller should only be installed inside your home and should not be installed



- 2. Connect the Power Adapter to your LED Strip.
- 3. Plug the Adapter into an electrical outlet and then the

# Controller properly connected. from step 1.

③ Quick start. Adding your LED Strip to a Z-Wave network.

> You are now able to manually control the LED Strip directly via pressing your LED Strip' Action Button. It is time to add your LED Strip to your Z-Wave network. To set your Z-Wave controller instruction manual. gateway/controller into pairing mode, please refer to the 1. Set your Z-Wave controller into device removal mode. respective section within your controller instruction manual. Press the Action Button on the LED Strip.

- 1. Set your Z-Wave controller into pairing mode.
- Press the Action Button on the LED Strip. 3. If the LED Strip has been successfully added to your Z-Wave network, its Network LED will be solid. If the pairing was

# unsuccessful, the red LED will be on for 2 seconds and then remain a colourful gradient, repeat the instructions above With your LED Strip now working as a part of your smart home,

you'll be able to configure it to indicate different colours from your home control software via setting the RGB value. Please refer to the user manual for your Z-Wave controller/gateway for precise instructions on configuring your LED Strip to your needs.

avo notivona.	
Wave network	Va
vvave network network's main	Va
ay into removal	Value

## Removing your LED Strip from a Z-Wave network.

our LED Strip can be removed from your Z-Wave network	
t any time. You'll need to use your Z-Wave network's main	
ontroller. To set your Z-Wave controller/gateway into removal	
node, please refer to the respective section within your Z-Wave	

## Colour Display Cycle (4 bits)

3. If the LED Strip has been successfully removed from your Z-Wave network, its Network LED will remain colourful gradient, If the removal was unsuccessful, the Network LED will still be solid, repeat the instructions above from step 1.

# Advanced functions.

## Colour Display Cycle Configuration.

Parameter 37 [4 byte] will cycle the colour displayed by LED Strip into different modes:

	7	6	5	4	3	2	1	0
Value 1 (MSB)		lour on Style		our Cha ed Op		Colo Cycle		splay
Value 2			Е	Brightn	ess			
Value 3			С	ycle C	ount			
	Time B	ase of C	oulor		-			

## Change Speed

The Colour Display Cycle field can have the following values corresponding to 4 different modes:

cycles displayed by your LED Strip in Colour Display Cycle before stopping. Inactive (keep the current configuration values) Rainbow Mode(red, orange, vellow, green, c

2)	- 11	5
yan, blue,	Cycle Count	Description
	0	Unlimited.
selected	1 to 254	Total number of repetitions/cycles before stopping.
	255	Inactive (keep the current configuration values)

## Brightness (8 bits)

Multi Colour Mode(colours cycle between

The following values correspond to 2 different transition styles

Smooth Colour Transition.

Fade Out Fade In Transition.

Random Mode.

Colour Transition Style (2 bits)

Colour ansition Style Description

Cycle Count (8 bits)

5 to 15

Single Colour Mode.

Brightness Level	Description
1 to 99	1 = Min level. 99 = Max level.
0 or 255	Inactive (keep the current configuration values).

2 Time base is 100ms.

Time Base of Colour Change Speed (3 bits) This function would be used when the Colour Transition Style is act to Eada Out/In

set to rade Ot	avin.
Time Base	Description
0	Time base is 1s.
1	Time base is 10ms.

Cycle Count	Description
0	Unlimited.
1 to 254	Total number of repetitions/cycles before stopping.
255	Inactive (keep the current configuration values).

set to Fade Out/In.

Parameter 39 [4 byte] can be used to set up to 8 colours to

This function would be used when the Colour Transition Style is

	- /	ь	5	4	3	2	1	U
(MSB)		Index	1			Inde	ex 2	
ue 2		Index	3			Inde	ex 4	
ue 3		Index	5			Inde	ex 6	
4 (LSB)		Index	7			Inde	ex 8	

otion			
ed.		Speed Level	Description
umber of repetitions/cycles before stopping.		0	Constant speed.
e (keep the current configuration values).		1 to 30	Accelerate/decelerate speed from the leve
, moop and darrons doringulation valued.	1		

The table above shows a decimal representation of the settings that can be set on parameter 37.

Colour Change Speed Level (5 bits)

transition from Colour Index 1-8.

# 7 0 5 4 0 0 1 0

## Colour Component Id:

ID	) 1	2	3	4	5	6	7	8
Colour	our Red	Orange	Yellow	Green	Cyan	Blue	Violet	Pinkish

If you set the parameter 39 to 305135616 (0x12300000 in hexadecimal), the colour will be changed from Red to Orange and then Orange to Yellow circularly (Red-Orange-Yellow).

When your Strip is in Single Colour Mode and the Fade Out Fade In transition style, the parameter 39 would be used to set the RGB value.

	7	6	5	4	3	2	1	0
Value 1 (MSB)	Red valu	Je 91.						
Value 2	Green v	alue						
Value 3	Blue val	ue						
Value 4 (LSB)	Reserve	d						

When your Bulb is in Random Mode, the parameter 39 would be used to set the random seed, then your bulb will automatically generate random colours to be displayed according to the random seed you set.

		-					
7	6	5	4	3	2	1	0
Rando	n seed va	alue					
)							

confirmation

## Enabling Security Encryption.

Set your Z-Wave controller into pairing mode.

network, so a security enabled controller/gateway is needed.

2. Press the Action Button on LED Strip Controller 2 times within

3. If LED Strip has been successfully added to your Z-Wave

network, its Network LED will be solid when you turn Strip

Value 1 (MSR) Random seed value

Technical Specifications. In order to take full advantage of all functionality the LED Stri you may want your LED Strip is a security device that uses Model number: FT121, ZW121, secure/encrypted message to communicate in your Z-Wave Power supply: 24V/3A DC Adapter.

Max operating power: 72W.

Max standby power: 1.2W.

Colour temperature: 450 to 650 Kelvin for BGB colour, 3000 to

3500 Kelvin for Warm white, 6500 to 8000 Kelvin for Cool white.

Operating temperature: 0 °C to 40 °C/32 °F to 104 °F.

Relative humidity: 8% to 80%.

Operating distance: Up to 492 feet/150 meters outdoors.

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This device complies with Part 15 of the FCC Rules. Operation

- is subject to the following two conditions:
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there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or

- more of the following measures:
- Reorient or relocate the receiving antenna. Increase the separation between the equipment and

harmful interference to radio communications. However,

- · Connect the equipment into an outlet on a circuit different
- from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician

Do not dispose of electrical appliances as unsorted municipal

waste, use separate collection facilities.

Contact your local government for information regarding the collection systems available.

Certifications (regional):

Z-Wave and Z-Wave Plus are registered

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FCC ID: XBAFT121









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