Colour Component Id:

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

Example:
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 value							
Value 2	Green value							
Value 3	Blue value							
Value 4 (LSB)	Reserved							

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
Value 1 (MSB)	Random seed value							
Value 2								
Value 3								
Value 4 (LSB)								

◉ Enabling Security Encryption.

In order to take full advantage of all functionality the ColorStrip, you may want your ColorStrip is a security device that uses secure/encrypted message to communicate in your Z-Wave network, so a security enabled controller/gateway is needed.

1. Set your Z-Wave controller into pairing mode.
2. Press the Action Button on ColorStrip Controller 2 times within 1 second.
3. If ColorStrip has been successfully added to your Z-Wave network, its Network LED will be solid when you turn Strip on.

◉ NFC function of your ColorStrip.

Your ColorStrip has inbuilt a NFC module. In order to take full advantage of the NFC feature, the Oomi's Touch panel is needed. When you take the Touch panel near to the NFC point of ColorStrip, you will see light purple LED dims on and then off, at the same time, the product information is read out from ColorStrip via NFC communication and then displayed on the Touch panel's screen.
If your ColorStrip is powered, it will send out a Node information frame to start the inclusion/exclusion when the Touch panel touches your ColorStrip. The Touch panel's screen will pop up a notification message to let you know whether the inclusion/exclusion is successful or not. If the Color Strip is included into your Touch panel, you will see the switch ON/OFF/DIM icons displayed on the Touch panel.

◉ Resetting your ColorStrip.

Removing ColorStrip from the Z-Wave network will set Color Strip to factory default settings.
If at some stage, your primary controller is missing or inoperable, you may wish to reset all of your Color Strip's settings to their factory defaults. To do this, press and hold the Action Button for 20 seconds and then release it. Your Color Strip will now be reset to its original settings, and the green LED will be solid for 2 seconds and then remain the colourful gradient status as a confirmation.

⑤ Technical Specifications.

Model number: FT121.
Power supply: 24V/3A DC Adapter.
Max operating power: 72W.
Max standby power: 1.2W.
Colour temperature: 2580 to 3710 Kelvin for Warm white, 4745 to 7050 Kelvin for Cool white.
RGB Led: Support multicolour switch, over 16 million colours.
Operating temperature: 0℃ to 40℃/32℉ to 104℉.
Relative humidity: 8% to 80%.
Operating distance: Up to 492 feet/150 meters outdoors.

⑥ Warranty.

If you are in need of any technical support during or subsequent to your products' warranty, please get in touch with our support team via http://aeotec.com/support. The Company you bought this product from has also guaranteed to assist you with any of your support needs, and you can also contact them for accordingly.
This guarantee made by the company who you purchased the product from includes the transfer of Aeon Labs' full warranty to that Company. They've guaranteed that they'll be able to assist you, the Customer, with all technical support and repair needs on our behalf.
Aeon Labs warrants to the original purchaser of Products that for the Warranty Period (as defined below), the Products will be free from material defects in materials and workmanship. The foregoing warranty is subject to the proper installation, operation and maintenance of the Products in accordance with installation instructions and the operating manual supplied to Customer. Warranty claims must be made by Customer in writing within thirty (30) days of the manifestation of a problem. Aeon Labs' sole obligation under the foregoing warranty is, at Aeon Labs' option, to repair, replace or correct any such defect that was present at the time of delivery, or to remove the Products and to refund the purchase price to Customer.
The "Warranty Period" begins on the date the Products is delivered and continues for 3 years.
Any repairs under this warranty must be conducted by an authorized Aeon Labs service representative and under Aeon Labs' RMA policy. Any repairs conducted by unauthorized persons shall void this warranty.
Excluded from the warranty are problems due to accidents, acts of God, civil or military authority, civil disturbance, war, strikes, fires, other catastrophes, misuse, misapplication, storage damage, negligence, electrical power problems, or modification to the Products or its components.
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Customer must prepay shipping and transportation charges for returned Products, and insure the shipment or accept the risk of loss or damage during such shipment and transportation. Aeon Labs will ship the repaired or replacement products to Customer freight prepaid.

Customer shall indemnify, defend, and hold Aeon Labs and Aeon Labs' affiliates, shareholders, directors, officers, employees, contractors, agents and other representatives harmless from all demands, claims, actions, causes of action, proceedings, suits, assessments, losses, damages, liabilities, settlements, judgments, fines, penalties, interest, costs and expenses (including fees and disbursements of counsel) of every kind (i) based upon personal injury or death or injury to property to the extent any of the foregoing is proximately caused either by a defective product (including strict liability in tort) or by the negligent or willful acts or omissions of Customer or its officers, employees, subcontractors or agents, and/or (ii) arising from or relating to any actual or alleged infringement or misappropriation of any patent, trademark, mask work, copyright, trade secret or any actual or alleged violation of any other intellectual property rights arising from or in connection with the products, except to the extent that such infringement exists as a result of Aeon Labs' manufacturing processes.

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FCC NOTICE (for USA)

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT.SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

STORE INDOORS WHEN NOT IN USE. SUITABLE FOR DRY LOCATIONS. DO NOT IMMERSE IN WATER. NOT FOR USE WHERE DIRECTLY EXPOSED TO WATER.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1 This device may not cause harmful interference, and
2 This device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, 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 receiver.
- 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 for help.

Warning

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):

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FCC ID: XBAFT121

5.4 Association Command Class

The LED Strip supports 2 association groups and can add max 5 nodes for each group.

Association Group	Nodes	Send Mode	Send commands
Group 1	0	N/A	N/A
	[1,5]	Single Cast	When the state of LED Strip (turn on/off the LED Strip) is changed: 1, Set Configuration parameter 80 to 0: Reserved (Default). 2, Set Configuration parameter 80 to 1: Send Hail CC. 3. Set Configuration parameter 80 to 2: Send the Basic Report.
Group 2	0	N/A	N/A
	[1,5]	Single Cast	Forward the Basic Set, Switch Binary Set, Switch Multilevel Start Level Change, Switch Multilevel Stop Level Change, Switch Multilevel Set, Scene Activation Set to associated nodes in Group 2 when the LED Strip receives the Basic Set, Switch Binary Set, Switch Multilevel Start Level Change, Switch Multilevel Stop Level Change, Switch Multilevel Set, Scene Activation Set commands from the main controller.

5.5 Association Group Info Command Class

5.5.1 Association Group Info Report Command Class

Profile: General: NA (Profile MSB=0, Profile LSB=1)

5.5.2 Association Group Name Report Command Class

Group 1: Lifeline

Group 2: Retransmit

Parameter Number Hex / Decimal	Description	Default Value	Size
0x14 (20)	The LED Strip's state after re-power on it. 0 = The last state before re-power on. 1 = Always On. 2 = Always Off.	0	1
0x20 (32)	Enable/disable to send out a report when the color is changed. 0 = Disable. 1 = Hail CC. Others = ignore.	0	1
0x21 (33)	Get the LED Strip's color value. Value 1 = Reserved. Value 2 = Red color value. Value 3 = Green color value. Value 4 = Blue color value.	-	4
0x22 (34)	Enable/disable to turn on the last brightness level of the LED Strip when using the Color Switch Set CC to change its color. 0 = Disable. 1 = Enable. Others = Ignore.	0	1
0x23 (35)	Configure the display mode of Cold/Warm white. 0 = Arbitrary combination of Cold/Warm white. 1 = Complementary combination of Cold/Warm white. Others = Ignore.	0	1
0x24(36)	Reboot/save/exit Colorful mode. 0 = Un-reboot Colorful mode. 1 = Reboot Colorful mode. 2 = Exit Colorful mode. 3 = Save the current Colorful mode value and then to be exited.	-	1
0x25(37)	Colorful mode configuration. (See the below table)	0x09630000	4
0x26 (38)	Change speed: Value 1: The speed from OFF to ON. Value 2: The speed from ON to OFF. Value 3: Pause time of ON. Value 4: Pause time of OFF.	0x03000300	4
0x27 (39)	Color index configuration when the LED Strip is in Multi color mode. (See the below table)	0x30000000	4
0x28 (40)	Colorful mode configuration. 1 = Rainbow mode. 2 = Mutil color mode. 3 = Fade out and fade in (Red). 4 = Fade out and fade in (Green). 5 = Fade out and fade in (Blue). *Note: this parameter is a Set-only parameter.*	0	1
0x50 (80)	Enable to send notifications to associated devices (Group 1) when the state of LED Strip is changed. 0 = Nothing. 1 = Hail CC. 2 = Basic CC report.	1	1
0x70 (112)	Dimmer mode: 0 = Parabolic curve. 1 = Index curve. 2 = (Parabolic + Index)/2. 3 = Linear.	2	1
0xFC (252)	Enable/disable Lock Configuration (0 =disable, 1 = enable). Value=0, the setting of configuration parameters is allowed. Value=1, all configuration parameters cannot be set (Locked).	0	1
0xFF (255)	1, Value = 0x55555555、Default = 1、Size = 4 Reset to factory default settings and removed from the z-wave network	N/A	4
	2, Value = 0、Default = 1、Size = 1 Reset all configuration parameters to factory default settings	N/A	1

Parameter 37 [4 byte] will set the LED Strip into different modes:

	7	6	5	4	3	2	1	0
Value 1 (MSB)	Color Transition Style		Color Change Speed Option			Color Display Cycle		
Value 2	Brightness							
Value 3	Cycle Count							
Value 4 (LSB)	Time Base of Color Change Speed			Color Change Speed Level				

Colour Display Cycle (4 bits)

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

Color Display Cycle	Description
0	Inactive (keep the current configuration values)
1	Rainbow Mode(red, orange, yellow, green, cyan, blue, violet, pinkish)
2	Multi Color Mode(colors cycle between selected colours)
3	Random Mode
4	Single Color Mode
5 to 15	Reserved

Single colour mode: The LED Strip will be solid/ blinking with one color in this mode.

Rainbow mode: The LED Strip has 8 colors to display and will change through a range of colors (Red→ Orange→ Yellow→ Green→ Cyan→ Blue→ Violet→ pinkish).

Multi-colour mode: The LED Strip can change between multiple colors according to the color index which is configurable through configuration parameter 39, see the configuration table of parameter 39 below.

Random mode: The Bulb's color will be displayed randomly.

Color Transition Style (2 bits)

The following values correspond to 3 different transition styles between colors:

Dim Style	Description
0	Smooth Color Transition.
1	Fade Out Fade In Transition.

Brightness (8 bits)

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

Cycle Count (8 bits)

The Cycle Count is used to define the number of repetitions/cycles displayed by your LED Strip in Color Display Cycle before stopping.

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

Note: The process of the first color change to the last color is regarded as a cycle.

For example:

When the LED Strip is in Rainbow mode, the color change from red to pink (Red→ Orange→ Yellow→ Green→ Cyan→ Blue→ Purple→ Pink), going through the colors is regarded as 1 cycle.

Time Base of Colour Change Speed (3 bits)

This function would be used when the Color Transition Style is set to Fade out/in.

Time Base	Description
0	Time base is 1s.
1	Time base is 10ms.
2	Time base is 100ms.

Colour Change Speed Level (5 bits)

This function would be used when the Color Transition Style is set to Fade out/in.

Level	Description
0	Constant speed
1~30	Accelerate/decelerate speed from the level 1 to 30.
31	Inactive (keep the current configuration values)

Parameter 39 [4 byte] can be used to set the 8 color index when the Bulb is in Multi color mode.

	7	6	5	4	3	2	1	0
Value1 (MSB)	Index 1				Index 2			
Value2	Index 3				Index 4			
Value3	Index 5				Index 6			
Value4 (LSB)	Index 7				Index 8			

Color component id:

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

The color will be changed form index 1 to index 8 circularly when your LED Strip is in Multi color mode.

For example:

If you set the parameter 39 to 305135616 (0x12300000 in hexadecimal, which means the Index 1=1(Red), the Index 2=2(Orange) and the Index 3=3(Yellow)), the color will be changed from Blue to Violet and then Violet to Pinkish (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
Value1 (MSB)	Red value							
Value2	Green value							
Value3	Blue value							
Value4 (LSB)	Reserved							

When your Strip 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
Value1 (MSB)	Random seed value							
Value2								
Value3								
Value4 (LSB)								

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