

OONI

ColorStrip



1. Ooni by Fantem ColorStrip.

Ooni ColorStrip is a multi-coloured Led Strip which allows control (on/off/dim/color change) via wireless Z-Wave commands.

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

2. Familiarise yourself with your ColorStrip.

Package Contents:

1. ColorStrip Controller (x1)
2. 5 meters LED Strip (x1)
3. Back Mount Plate (x1)
4. Power Adapter (x1)
5. Screws (x2)
6. Double-Sided Tape (x1)



ColorStrip Controller



Back Mount Plate



Screws



LED Strip



Double-Sided Tape



Power Adapter



Network LED



Action Button



Power Input



LED Strip Connector

Install your ColorStrip.

The installation of your ColorStrip has two major steps: the ColorStrip Controller and the LED Strip. LED Strip can be installed inside or outside your home, but the ColorStrip Controller should only be installed inside your home and should not be installed outdoors in elements such as rain and snow.

1. Plug the LED Strip to the Color Strip connector of your Color Strip Controller.
2. Connect the Power Adapter to your Color Strip.
3. Plug the Adapter into an electrical outlet and then the



Network LED



Action Button



Power Input



LED Strip Connector



LED Strip



ColorStrip Controller



Power Adapter

3. Quick start.

Adding your ColorStrip to a Z-Wave network.

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

1. Set your Z-Wave controller into pairing mode.
2. Press the Action Button on the ColorStrip.
3. If the ColorStrip 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 from step 1.

With your ColorStrip 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 ColorStrip to your needs.

Removing your ColorStrip from a Z-Wave network.

Your ColorStrip can be removed from your Z-Wave network at any time. You'll need to use your Z-Wave network's main controller. To set your Z-Wave controller/gateway into removal mode, please refer to the respective section within your Z-Wave controller instruction manual.

1. Set your Z-Wave controller into device removal mode.
2. Press the Action Button on the ColorStrip.

3. If the ColorStrip 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.

4. Advanced functions.

Colour Display Cycle Configuration.

Parameter 27 (4 byte) will cycle the colour displayed by ColorStrip into different modes:

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

Colour Display Cycle (4 bits)

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

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

Colour Transition Style (2 bits)

The following values correspond to 2 different transition styles between colours:

Colour Transition Style	Description
0	Smooth Colour Transition
1	Fade Out/Fade In Transition

Cycle Count (8 bits)

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

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

Brightness (8 bits)

Brightness Level	Description
1 to 30	1 = Min level, 30 = Max level
0 or 255	Inactive (keep the current configuration values)

Time Base of Colour Change Speed (2 bits)

This function would be used when the Colour 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 Colour Transition Style is set to Fade Out/In.

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

The table above shows a decimal representation of the settings that can be set on parameter 27.

Parameter 28 (4 byte) can be used to set up to 8 colours to cycle between when ColorStrip is in Multi Colour Mode. Colours transition from Colour Index 1-8.

	7	6	5	4	3	2	1	0
Value 1 (RGB)	Index 1			Index 2				
Value 2	Index 3			Index 4				
Value 3	Index 5			Index 6				
Value 4 (RGB)	Index 7			Index 8				

Colour Component list

0	1	2	3	4	5	6	7	8
Colour	Red	Orange	Yellow	Green	Cyan	Blue	Black	Random

Example:

If you set the parameter 39 to 305135616 (0x1200000 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 38 would be used to set the RGB value.

	7	6	5	4	3	2	1	0
Value 1 (RGB)	Red value							
Value 2	Green value							
Value 3	Blue value							
Value 4 (LED)	Power on							

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 (RGB)	Random seed value							
Value 2								
Value 3								
Value 4 (LED)								

● 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 Core's Touch panel is needed. When you take the Touch panel near to the NFC point of ColorStrip, you will see light purple LED dim 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/US9.

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°C to 40°C(32°F to 104°F).

Relative humidity: 0% to 80%.

Operating distance: Up to 400 feet/150 metres outdoors.

⑥ Warranty.

If you are in need of any technical support during or subsequent to your product's warranty, please get in touch with our support team via <http://www.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.

The guarantee made by the company who you purchased the product from includes the transfer of Fastem 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.

Fastem 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. Fastem sole obligation under the foregoing warranty is, at Fastem 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 Fastem service representative and under Fastem RMA policy. Any repairs conducted by unauthorized persons shall void the warranty.

Excluded from the warranty are problems due to accidents, acts of God, civil or military authority, civil disturbances, war, strikes, fires, other catastrophes, misuse, misapplication, storage damage, negligence, electrical power problems, or modification to the Products or its components. Fastem does not authorize any person or party to assume or create for it any other obligation or liability in connection with the Products except as set forth herein.

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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 the 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):

2-WAVE

PLUS

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FCC ID: XBWFT121

FC

CE

RoHS

Association information

5.4 Association Command Class

The LEDStripCommand2 association group and/or individual Invokers for each group.

Association Group	Invoker	Name	Name comments
Group 1	0	Off	Off
	0.01	Single Color	When the state of LED Strip changes the LED Strip is color per 1. Set Configuration parameter 0 to 1 (Reserved/Default) 1. Set Configuration parameter 0 to 1 (Set the CC) 1. Set Configuration parameter 0 to 1 (Set the Mode/Report)
Group 2	0	Off	Off
	0.01	Single Color	When the state of LED Strip changes the LED Strip is color per Switch Level Change, Switch Matrix Strip Level Change, Switch Matrix Fan Speed, Switch Fan to activate mode in Group Color and LED Strip, Switch the Level Change, Switch Level Change, Switch Matrix Level Change, Switch Matrix Strip Level Change, Switch Matrix Fan Speed, Switch Fan to activate mode in Group Color and LED Strip, Switch Level Change, Switch Matrix Level Change, Switch Matrix Fan Speed, Switch Fan to activate mode from the main console.

5.5 Association Group Info Command Class

5.5.1 Association Group Info Report Command Class

Profile: General Info (Profile 0000) Profile: LED(1)

5.5.2 Association Group Info Report Command Class

Group 1: LED(1)

Group 2: Remote

Configuration parameter information

Parameter Number	Description	Default Value	Min	Max
0x01 (0)	The LED Strip state after to power on. On: The last mode before to power on. 1 = Always On. 2 = Always Off.	0	0	1
0x02 (0)	Enable/disable send out reports when transition is changed. On: Enable. 1 = Report. Off: Disable.	0	0	1
0x03 (0)	When the state of LED Strip changes the LED Strip is color per. 1. Set Configuration parameter 0 to 1 (Reserved/Default) 1. Set Configuration parameter 0 to 1 (Set the CC) 1. Set Configuration parameter 0 to 1 (Set the Mode/Report)	0	0	1
0x04 (0)	When the state of LED Strip changes the LED Strip is color per. Switch Level Change, Switch Matrix Strip Level Change, Switch Matrix Fan Speed, Switch Fan to activate mode in Group Color and LED Strip, Switch the Level Change, Switch Level Change, Switch Matrix Level Change, Switch Matrix Strip Level Change, Switch Matrix Fan Speed, Switch Fan to activate mode from the main console.	0	0	1

0x05 (0)	Configure the display mode of ColorPlane when. On: Arbitrary combination of ColorPlane mode. 1 = Complementary combination of ColorPlane mode, Show in group.	0	0	1
0x06 (0)	Arbitrary combination of ColorPlane mode. On: Enable ColorPlane mode. 1 = Select ColorPlane mode. 2 = Set ColorPlane mode.	0	0	1
0x07 (0)	Enable to send notifications to associated device (Group 1) when the state of LED Strip is changed. On: Enable. 1 = Report. Off: Disable.	0	0	1
0x08 (0)	Color mode configuration. See the below table.	0x000000	0	1
0x09 (0)	Change speed. value 1: The speed from OFF to ON. value 2: The speed from OFF to OFF. value 3: Power line of ON. value 4: Power line of OFF.	0x000000	0	1
0x0A (0)	Color mode configuration when the LED Strip is in Multicolor mode. See the below table.	0x000000	0	1
0x0B (0)	Enable/disable report on the last brightness level of the LED Strip when using the Color Switch Set/CC to change to color. On: Enable. 1 = Enable. Off: Disable.	0	0	1

0x0C (0)	Color mode configuration. 1 = Rainbow mode. 2 = Multicolor mode. 3 = Rainbow mode (Red). 4 = Rainbow mode (Green). 5 = Rainbow mode (Blue). <i>Change this parameter to set strip operation.</i>	0	0	1
0x0D (0)	Enable to send notifications to associated device (Group 1) when the state of LED Strip is changed. On: Enable. 1 = Report. Off: Disable.	0	0	1
0x0E (0)	Color mode configuration. See the below table.	0x000000	0	1
0x0F (0)	Change speed. value 1: The speed from OFF to ON. value 2: The speed from OFF to OFF. value 3: Power line of ON. value 4: Power line of OFF.	0x000000	0	1
0x10 (0)	Color mode configuration when the LED Strip is in Multicolor mode. See the below table.	0x000000	0	1
0x11 (0)	Enable/disable report on the last brightness level of the LED Strip when using the Color Switch Set/CC to change to color. On: Enable. 1 = Enable. Off: Disable.	0	0	1

0x12 (0)	1: Select 0x000000. Select 0: 1. Select 2. Reset to factory default settings and removed from the device network. 0: Value = 0. Default = 1. Size = 1. Read when configuration parameters to factory default settings.	0x0	0x0	1
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Parameter ID	7	6	5	4	3	2	1	0
Value 1 (MODE)	Color Transition Style	Color Change Speed Level	Color Display Cycle					
Value 2 (MODE)	Brightness							
Value 3 (MODE)	Cycle Count							
Value 4 (MODE)	Time Base of Color Change Speed		Color Change Speed Level					

Color Display Cycle (MODE)

The Color Display Cycle field can have the following values corresponding to 2 different MODE.

Color Display Cycle	Description
0	Factory (keep the current configuration values).
1	Rainbow: Randomly change yellow, green, cyan, blue, color (period).
2	Multi-Color: Randomly cycle between selected colors.
3	Rainbow mode.
4	Single-Color Mode.
5 or 6	Reserved.

Single-color mode: The LED Strip will be color blinking with one color in this mode.
Rainbow mode: The LED Strip has Rainbow display and will change through a range of colors (Red > Orange > Yellow > Green > Cyan > Blue > Violet > Purple).

Multicolor mode: The LED Strip can change between multiple colors according to the color order which is configurable through configuration parameter 06 (write configuration table of parameter 06 below).

Rainbow mode: The built-in color will be displayed randomly.

Color Transition Style (MODE)

The following values correspond to 2 different transition styles between colors.

Color Style	Description
0	Smooth Color Transition.
1	Fast Cut Fade In Transition.

Brightness (MODE)

Level	Description
1 or 0	1 = Min level (0 = Max level).
2 or 255	Factory (keep the current configuration values).

Cycle Count (MODE)

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

Cycle Count	Description
0	Unlimited.
1 or 255	Total number of repetitions/cycle before stopping.
255	Factory (keep the current configuration values).

Note: The process of the transition changes the last color is regarded one cycle.

Color Change Speed Level (MODE)

For example, when the LED Strip is in Rainbow mode, the speed change from red to pink (Red > Orange > Yellow > Green > Cyan > Blue > Purple > Pink) going through the color is regarded as 1 cycle.

Time Base	Description
0	Factory (keep the current configuration values).
1	Transitions 10ms.
2	Transitions 50ms.

Color Change Speed Level (MODE)

Level	Description
0	Unlimited speed.
1-255	Accelerated/limited speed from the level 1 to 255.
255	Factory (keep the current configuration values).

Color Component (MODE)

The color will be changed from index 1 to index 8 consecutively when your LED Strip is in color mode.

Color	1	2	3	4	5	6	7	8
Value (MODE)	Red	Orange	Yellow	Green	Cyan	Blue	Violet	Purple
Value (MODE)	Random seed value.							
Value (MODE)								
Value (MODE)								

For example, if you set the parameter 06 to 0x000000 (0x000000 in hexadecimal which means the index 1), the index 0x02 (Orange) and the index 0x03 (Yellow), the color will be changed from Blue to pink and then violet/purple (Red >> Orange >> Yellow).

Color Component (MODE)

Parameter 06 (MODE) can be used to set the 8 color index when the built-in color mode.

Color	7	8	5	4	3	2	1	0
Value (MODE)	Factory value.							
Value (MODE)	Seed value.							
Value (MODE)	Seed value.							
Value (MODE)	Reserved.							

Color Component (MODE)

When your Strip is in color mode, the parameter 06 should be used to set the random seed.

When your Strip will automatically generate random colors when displayed according to the color mode you set.

Color	7	8	5	4	3	2	1	0
Value (MODE)	Random seed value.							
Value (MODE)								
Value (MODE)								

Color Component (MODE)

When your Strip is in color mode, the parameter 06 should be used to set the random seed.

Color	7	8	5	4	3	2	1	0
Value (MODE)	Factory value.							
Value (MODE)	Seed value.							
Value (MODE)	Seed value.							
Value (MODE)	Reserved.							

Color Component (MODE)

When your Strip is in color mode, the parameter 06 should be used to set the random seed.

When your Strip will automatically generate random colors when displayed according to the color mode you set.

Color	7	8	5	4	3	2	1	0
Value (MODE)	Random seed value.							
Value (MODE)								
Value (MODE)								

