



Oomi Color Strip FT121-A Manual

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Oomi

Color Strip

SKU: FT121-A



This is a
secure
Light Dimmer
for
U.S. / Canada / Mexico.

To run this device please connect it to your mains power supply.

To add this device to your network execute the following action:
Turn the primary controller of Z-Wave network into inclusion mode, press the Action Button on the LED Strip Controller.

Please refer to the
[Manufacturers Manual](#) for more information.

Important safety information

Please read this manual carefully. Failure to follow the recommendations in this manual may be dangerous or may violate the law.

The manufacturer, importer, distributor and seller shall not be liable for any loss or damage resulting from failure to comply with the instructions in this manual or any other material.

Use this equipment only for its intended purpose. Follow the disposal instructions.

Do not dispose of electronic equipment or batteries in a fire or near open heat sources.

What is Z-Wave?

Z-Wave is the international wireless protocol for communication in the Smart Home. This device is suited for use in the region mentioned in the Quickstart section.

Z-Wave ensures a reliable communication by reconfirming every message (**two-way communication**) and every mains powered node can act as a repeater for other nodes (**meshed network**) in case the receiver is not in direct wireless range of the transmitter.



This device and every other certified Z-Wave device can be **used together with any other certified Z-Wave device regardless of brand and origin** as long as both are suited for the same frequency range.

If a device supports **secure communication** it will communicate with other devices secure as long as this device provides the same or a higher level of security. Otherwise it will automatically turn into a lower level of security to maintain backward compatibility.

For more information about Z-Wave technology, devices, white papers etc. please refer to www.z-wave.info.

Product Description

Oomi Color Strip is a multi-coloured LED Strip which allows control (on/off/dim/colour change) via wireless Z-Wave commands. The Color Strip can also communicate securely via AES 128 wireless Z-Wave commands and

supports Over-The-Air (OTA) firmware upgrades.

Prepare for Installation / Reset

Please read the user manual before installing the product.

In order to include (add) a Z-Wave device to a network it **must be in factory default state**. Please make sure to reset the device into factory default. You can do this by performing an Exclusion operation as described below in the manual. Every Z-Wave controller is able to perform this operation however it is recommended to use the primary controller of the previous network to make sure the very device is excluded properly from this network.

Reset to factory default

This device also allows to be reset without any involvement of a Z-Wave controller. This procedure should only be used when the primary controller is inoperable.

Press and hold the Action Button on the LED Strip Controller for 20 seconds and then release it. Use this procedure only in the event that your primary network controller is missing or inoperable.

Safety Warning for Mains Powered Devices

ATTENTION: only authorized technicians under consideration of the country-specific installation guidelines/norms may do works with mains power. Prior to the assembly of the product, the voltage network has to be switched off and ensured against re-switching.

Inclusion/Exclusion

On factory default the device does not belong to any Z-Wave network. The device needs to be **added to an existing wireless network** to communicate with the devices of this network. This process is called **Inclusion**.

Devices can also be removed from a network. This process is called **Exclusion**. Both processes are initiated by the primary controller of the Z-Wave network. This controller is turned into exclusion respective inclusion mode. Inclusion and Exclusion is then performed doing a special manual action right on the device.

Inclusion

Turn the primary controller of Z-Wave network into inclusion mode, press the Action Button on the LED Strip Controller.

Exclusion

Turn the primary controller of Z-Wave network into exclusion mode, press the Action Button on the LED Strip Controller.

Quick trouble shooting

Here are a few hints for network installation if things dont work as expected.

1. Make sure a device is in factory reset state before including. In doubt exclude before include.
2. If inclusion still fails, check if both devices use the same frequency.
3. Remove all dead devices from associations. Otherwise you will see severe delays.
4. Never use sleeping battery devices without a central controller.
5. Dont poll FLIRS devices.

6. Make sure to have enough mains powered device to benefit from the meshing

Association – one device controls an other device

Z-Wave devices control other Z-Wave devices. The relationship between one device controlling another device is called association. In order to control a different device, the controlling device needs to maintain a list of devices that will receive controlling commands. These lists are called association groups and they are always related to certain events (e.g. button pressed, sensor triggers, ...). In case the event happens all devices stored in the respective association group will receive the same wireless command wireless command, typically a 'Basic Set' Command.

Association Groups:

Group Number Maximum Nodes Description

1	5	The association group 1 is the Z-Wave Lifeline group. The Hail CC and Basic Report CC (configurable) can be sent to the associated nodes in association group 1.
2	5	In this group, the Basic Set, Switch Binary Set, Switch Multilevel Start Level Change, Switch Multilevel Stop Level Change, Switch Multilevel Set, Scene Activation Set commands would be sent to the associated nodes in association 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.

Configuration Parameters

Z-Wave products are supposed to work out of the box after inclusion, however certain configuration can adapt the function better to user needs or unlock further enhanced features.

IMPORTANT: Controllers may only allow configuring signed values. In order to set values in the range 128 ... 255 the value sent in the application shall be the desired value minus 256. For example: To set a parameter to 200 it may be needed to set a value of 200 minus 256 = minus 56. In case of a two byte value the same logic applies: Values greater than 32768 may needed to be given as negative values too.

Parameter 112: Set the Dimmer mode.

Set the Dimmer mode.

Size: 1 Byte, Default Value: 0

Setting Description

0	Parabolic curve mode
1	Index curve mode
2	(Parabolic + Index)/2 mode
3	Linear mode

Parameter 20: Set the LED Strips state after it is re-powered on

Set the LED Strips state after it is re-powered on.

Size: 1 Byte, Default Value: 1

SettingDescription

0	The last state before re-power on.
1	Always On.
2	Always Off.

Parameter 252: Enable/disable Lock Configuration

Enable/disable to lock Configuration parameters.

Size: 1 Byte, Default Value: 0

SettingDescription

0	Disable
1	Enable

Parameter 255: Reset the Color Strip

Reset the Color Strip to factory default.

Size: 4 Byte, Default Value: 0

SettingDescription

0	Reset all configuration parameters to factory default settings
1431655765	Reset the Color Strip to factory default.

Parameter 32: Enable/disable to send out a report when the color is changed.

Enable/disable to send out a report when the color is changed.

Size: 1 Byte, Default Value: 0

SettingDescription

0	Disable
1	Hail CC

Parameter 33: Get the LED strips color value.

Get the Strips color value. Note: This parameter is a get-only parameter.

Size: 4 Byte, Default Value: 0

SettingDescription

256 – 65535	Green color value
1 – 255	Bule color value
65536 – 16777215	Red color value

Parameter 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.

Enable/disable to turn on the last brightness level of the LED Strip when using the Color Switch Set CC to change

its color.

Size: 1 Byte, Default Value: 0

SettingDescription

0	Disable
1	Enable

Parameter 35: Configure the display mode of Cold/Warm white.

Configure the display mode of Cold/Warm white.

Size: 1 Byte, Default Value: 1

SettingDescription

0	Arbitrary combination of Cold/Warm white.
1	Complementary combination of Cold/Warm white.

Parameter 36: Reboot/save/exit Colorful mode.

Reboot/save/exit Colorful mode. Note: This parameter is a set-only parameter.

Size: 1 Byte, Default Value: 0

SettingDescription

3	Save the current Colorful mode value and then to be exited.
0	Un-reboot Colorful mode.
1	Reboot Colorful mode.
2	Exit Colorful mode.

Parameter 37: Colorful mode configuration.

Configure the Colorful mode.

Size: 4 Byte, Default Value: 157483008

SettingDescription

0 – 31	Colour Change Speed Level
32 – 255	Time Base of Color Change Speed
256 – 65535	Cycle Count
65536 – 16777215	Brightness
16777215 – 134217727	Color Display Cycle
134217728 – 1073741823	Color Change Speed Option
1073741824 – 2147483647	Color Transition Style

Parameter 38: Change speed

Set the Change speed.

Size: 4 Byte, Default Value: 50332416

SettingDescription

1 – 255	Set the pause time of OFF.
256 – 65535	Set the pause time of ON.
65536 – 16777215	Set the speed from ON to OFF.
16777216 – 2147483647	Set the speed from OFF to ON.

Parameter 39: Color index configuration when the LED Strip is in Multi color mode.

Color index configuration when the LED Strip is in Multi color mode.

Size: 4 Byte, Default Value: 2003125025

SettingDescription

1 – 15	Index 8
16 – 255	Index 7
256 – 4095	Index 6
4096 – 65535	Index 5
65536 – 1048575	Index 4
1048576 – 16777215	Index 3
16777216 – 268435455	Index 2
268435456 – 2147483647	Index 1

Parameter 40: Colorful mode configuration.

Colorful mode configuration.

Size: 1 Byte, Default Value: 0

SettingDescription

3	Fade out and fade in (Red).
1	Rainbow mode.
2	Mutil color mode.
4	Fade out and fade in (Green).
5	Fade out and fade in (Blue).

Parameter 80: To set whcih notification can be sent to the associated devices (Group 1) when the state of LED Bulb is changed.

To set whcih notification can be sent to the associated devices (Group 1) when the state of LED strip is changed.

Size: 1 Byte, Default Value: 1

SettingDescription

3	Hail CC when pressing the Action Button to change its state
0	Nothing
1	Hail CC
2	Basic CC report.

Technical Data

Hardware Platform	ZM5101
Device Type	Light Dimmer Switch
Network Operation	Always On Slave
Firmware Version	HW: 121 FW: 1.01
Z-Wave Version	6.51.09
Certification ID	ZC10-17045551
Z-Wave Product Id	0x016A.0x0103.0x0079
Switch Type	Push Button Illuminated
Firmware Updatable	Updatable by Consumer by RF
Z-Wave Scene Type	Scene
Frequency	XXfrequency
Maximum transmission power	XXantenna

Supported Command Classes

- Association Grp Info
- Association V2
- Basic
- Configuration
- Device Reset Locally
- Firmware Update Md V2
- Manufacturer Specific V2
- Powerlevel
- Scene Activation
- Scene Actuator Conf
- Security
- Switch All
- Switch Color
- Switch Multilevel V2
- Version V2
- Zwaveplus Info V2

Controlled Command Classes

- Basic
- Hail

Explanation of Z-Wave specific terms

- **Controller** — is a Z-Wave device with capabilities to manage the network.
Controllers are typically Gateways, Remote Controls or battery operated wall controllers.
- **Slave** — is a Z-Wave device without capabilities to manage the network.
Slaves can be sensors, actuators and even remote controls.
- **Primary Controller** — is the central organizer of the network. It must be a controller. There can be only one primary controller in a Z-Wave network.
- **Inclusion** — is the process of adding new Z-Wave devices into a network.
- **Exclusion** — is the process of removing Z-Wave devices from the network.
- **Association** — is a control relationship between a controlling device and a controlled device.
- **Wakeup Notification** — is a special wireless message issued by a Z-Wave device to announces that is able to communicate.
- **Node Information Frame** — is a special wireless message issued by a Z-Wave device to announce its capabilities and functions.