qubino
Your little magic for the smartest home.

Flush RGBW Dimmer

ORDERING CODE	Z-WAVE FREQUENCY
ZMNHWD1	868,4 MHz
ZMNHWD2	921,4 MHz
ZMNHWD3	908,4 MHz
ZMNHWD4	869,0 MHz
ZMNHWD5	916,0 MHz
ZMNHWD6	865,2 MHz

Qubino Flush RGBW Dimmer module is used to control RGB/RGBW strips and LED strips or bulbs to create countless colour options and has six special scene effects. It can also control halogen lights and fans. Its extremely small size allows for easy installation behind wall sockets and switches. Controlled devices may be powered by 12 or 24 VDC. It supports momentary and on/off toggle switches.

PACKAGE CONTENTS

Flush RGBW Dimmer, Installation Manual

INSTALLATION

1. Before the installation disconnect power supply (12 - 24VDC)
2. Connect the module exactly according to the diagram.
3. Pull out the antenna and keep it at 90 degree to enhance the RF signals.
4. Place the antenna as far as possible from metal elements as they may cause signal interference.
5. Do not shorten the antenna.

Danger of electrocution!

Installation of this module requires a great degree of skill and may be performed only by a licensed and qualified electrician. Please keep in mind that even when the module is turned off, voltage may still be present in the module's terminals.

Note!

Do not connect the module to loads exceeding the recommended values. Connect the module exactly as shown in the provided diagrams. Improper wiring may be dangerous and result in equipment damage. Device must be powered by a dedicated regulated power adapter.

Z-WAVE INCLUSION

AUTO-INCLUSION

1. Enable inclusion mode on your Z-Wave controller
2. Connect the module to the power supply
3. Auto-inclusion will be initiated within 5 seconds of connection to the power supply and the module will automatically enrol in your network. If the device is properly included, the RGBW strip will blink once. Auto-inclusion times out after 2 minutes.

MANUAL INCLUSION

1. Connect the module to the power supply
2. Enable inclusion mode on your Z-Wave controller
3. Press and release the S (Service) button 3 times within 2 seconds

Z-WAVE EXCLUSION

1. Connect the module to the power supply
2. Make sure the module is within direct range of your Z-Wave controller or use a hand-held Z-Wave remote to perform exclusion
3. Press and release the S (Service) button 3 times within 2 seconds

NOTE: The module will be excluded from your network, but any custom configuration parameters will not be erased.

FACTORY RESET

1. Connect the module to the power supply
2. Press and hold the S (Service) button for at least 10 seconds

NOTE: By resetting the module, all custom parameters previously set on the module will return to their default values, and owner ID will be deleted. Use this reset procedure only when the main controller is missing or otherwise inoperable.

Warning

1. Flush RGBW Dimmer is suggested to operate within low voltage circuits (12VDC or 24VDC). Connecting loads powered by higher voltage to the module may damage the Flush RGBW Dimmer. Please refer to the following table when wiring the module.

RGBW Strip Current	Stranded Wire
High current	18 AWG
Low Current	22 AWG

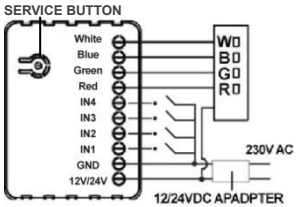
2. Flush RGBW Dimmer must be powered by the same voltages as the connected light source. I.e. when controlling a 12V LED strip, the module must be connected to a matching 12V power supply. Similarly, when controlling a 24V RGBW strip, the Flush RGBW Dimmer must be powered by a 24V power supply.
3. The module's output is controlled by PWM at 488Hz.
4. When controlling long RGBW/RGB/LED strips, voltage drops may occur, resulting in lower light brightness farther away from the R/G/B/W outputs. To minimize this issue, it's recommended to connect several shorter strips in parallel instead of one long strip connected in sequence. The maximum recommended RGBW/RGB/LED strip length is 33 feet (10 m). Please follow manufacturer recommendations regarding connection wire size for each load you connect to the module.
5. If your primary Z-Wave controller is damaged or lost, but you have connected the module to an external switch, the Flush RGBW Dimmer can operate normally with local control. Otherwise, please replace your Z-Wave controller to exclude the module from your previous network and re-include it to restore wireless control (follow inclusion / exclusion instructions above for the process).

LED Indication

Status	LED Signal
Not included to Z-Wave network	Red & Green blinking interchangeably
Included to Z-Wave network	Solid Green
Inclusion	Blinking Green (Interval: 1 sec)
Exclusion	Blinking Green (Interval: 1 sec)
Auto-inclusion	Blinking Green (Interval: 1 sec)

Input Type	Note
Momentary	Mono-stable or push button switch
Toggle	Bi-stable switch
Toggle w/Memory	ON: Active for closing terminals OFF: Active for opening terminals

ELECTRICAL DIAGRAM



Notes for diagram in default configuration:

IN1-Push button	**Brightness control**
IN2 – Push button	**Rainbow mode**
IN3 – Push button	**Scene mode**
IN4 – Push button	**Normal mode**

IMPORTANT DISCLAIMER

Z-Wave wireless communication is not always 100% reliable. This module should not be used in situations in which life and/or valuables are solely dependent on its functioning. If the module is not recognized by your controller or shows up incorrectly, you may need to change the device type manually and make sure your gateway controller supports multi-level devices. Contact us for help before returning the product: http://qubino.com/support/#email

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. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being. When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposal free of charge.

TECHNICAL SPECIFICATIONS

Power supply	12 / 24V DC
PWM output frequency	488Hz
Rated output power	8A for single output channel,13A at max.(3,25A for R.G.B.W. single output channel is suggested)
Max load (e.g. halogen bulbs)	At 12V- 156W combined At 24V- 312W combined
LED Indicator	Red/Green *1
Operation temperature	0˚C ~ 40˚C (32˚F ~ 104˚F)
Z-Wave operation range	up to 30 m indoors (98 ft)
Dimensions (WxHxD) (packaging)	40,5x32x14.5 mm (1,77x1,25x0,57 in); 79x52x22 mm / 3,11x2,05x0,87 in)
Weight (with packaging)	28g (34g) / 0.97oz (1.20oz)
Power consumption	12V: 0.48W; 24V: 0.72W
For installation in boxes	Ø ≥ 60 mm (2,36 in)or 2M (78,74 in), depth≥ 60 mm (2,36 in)

Supported loads:

The Flush RGBW Dimmer may control: 12/24VDC powered RGB strips, 12/24VDC powered RGBW strips, 12/24VDC powered LED strips, bulbs, etc., 12/24VDC powered halogen lights

This user manual is subject to change and improvement without prior notice.

Download the extended manual: scan the QR code below or visit: http://qubino.com/products/flush-rgbw-dimmer/

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Web: www.qubino.com; Date: 05.05.2017; V 1.5