# LED Controller WiFi RGBW - WiFi-106

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# General

General	
Product Type	Wireless
Length (mm)	128
Width (mm)	73
Height (mm)	45
Housing Color	Grey / Black
Housing Material	Metal
Mounting	Surface mounted
Weight (g)	390
Electronics	
Input Domain	DC
Input Voltage	12 ~ 24V DC
Output Voltage	12 ~ 24 V DC
Output Current (mA) max/output	4000
Output Current Max. (A)	16
Output Power (W)	192W @ 12V, 384W @ 24V
Power Supply	N/A
LED Outputs	4
Lighting	
Lighting	
Color Range	RGBW
Control	
Output Signal	PWM-CV
Control	Radio Frequency, Wifi
Dimming Range	0~100%
Number of Channels	4
Environmental	

# Environmental

Operating Temperature Ingress Protection -30 ~ +55 °C IP20

**€** IP20

Disclaimer

Due to the technical evolution and improvement of our products, the data provided in this document may be updated on a regular basis, and as such, confirmation of this information is strongly recommended prior to the order process. OneEightyOne is not responsible for any discrepancies in this document following changes in our products. We reserve the right to make technical changes to our products and to change information, at its sole discretion, without notice.

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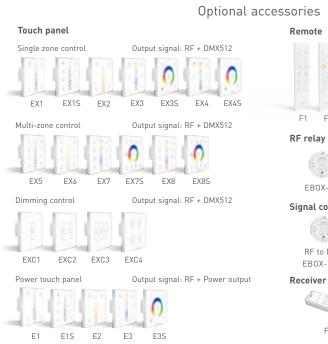
www.ltech-led.com

directly or by a router.

### WiFi-106 LED Controller

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F4-5A

-EBOX-AP Signal converter







F4-CC

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# 1. Product Parameter:

### WiFi-106 Gateway 2.4GHz WiFi, 802.11b/g/n Protocol Communication Standard Input Voltage: 12~24Vdc Output Current: 4A×4CH Max. 16A Max Output Power: (0~48W...96W)×4CH Max. 384W Control Distance: Max. 100m (eye to eye) Output Control: Dimming, CT, RGB, RGBW Operating Temp.: -30°C ~55°C Dimensions: L128×W73×H45(mm) Package Size: L160×W110×H50(mm) Weight (G.W.): 470g



### F12 **RF** Remote Control

WiFi-106 is a WiFi lighting control system, consisted of APPs and WiFi controller. Controls various types of LED

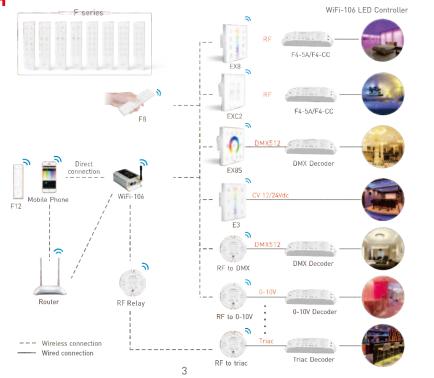
lighting products by installing the related App on our iOS or Android mobile devices which support WiFi connection.

With DIM, CT adjustment, RGB and RGBW changing 4 in 1 operation, plus 12 zones control function, you can connect

Working Voltage: 3Vdc (Battery CR2032) Wireless Frequency: RF 2.4GHz Package Size: L150×W46×H18(mm) Weight(G.W.): 85a

### Software Technical Parameters:

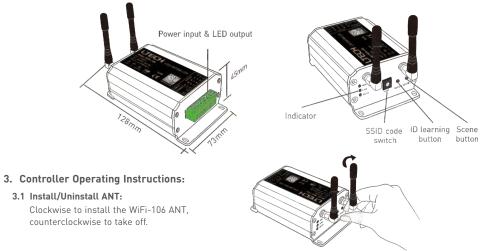
Platform: Android 4.0 or above, iOS 8.0 or above Language: English Category: Appliance



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WiFi-106 LED Controller

# 2. Configuration Diagram:



### 3.2 Work Status Indicator Instructions:

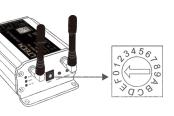
RUN: The indicator light flashes quickly about 60 seconds during the electric initialization. Return to flash slowly after initialization.

LINK: The indicator light stays lit when the mobile device connects to WiFi-106, and turns off when disconnect. RX/TX: The indicator light flashes when WiFi-106 receive or transmit the WiFi data, turns off in the free time.

### WiFi-106 LED Controller

## 3.3 SSID Number Setting:

Use code switch to set the controller's SSID number, WiFi-106-SSID-X, X stands for a certain No. ranging from 0-F, totally 16 options. which means our product could set 16 isolated LAN in the same area. WiFi-106 will initialize with run LED indicator flashing about 25s quickly, each time the SSID NO. is changed. Mobile devices need to search and connect WiFi again after Initialization finished.

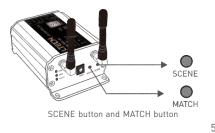


# 3.4 "MATCH" and "SCENE" Button:

Short press MATCH button, WiFi controller begins its learning ID status for F12 remote (learning method, see P16). Short press "SCENE" button entering into the user-saved scene modes sequentially, 8 scenes total.

# [ Restore factory settings/Delete password ]

Long press "MATCH" and "SCENE" button simultaneously more than 2 seconds, the machine will back to the default parameter, including the parameters of changing modes, zone, group and network. Machine default parameters: Only 1st zone is present, default RGBW mode, the changing mode is RGB jumping, white is the brightest, no groups, network SSID is WiFi-106-SSID-X (X is the actual coding switch corresponding SSID values), WiFi-106 controller restores as direct connection and the connection password is blank.





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- 4. The Instructions of APP Software:
- 4.1. WiFi-106 Software Installation:

Scan QR Code to download the APP via mobile phone.



# 4.2 Software Operating Instructions:

4.2.1 WiFi Connection and Settings

WiFi-106 support 2 connection modes: Direct connection as a router or connect by an additional router.

# A. WiFi-106 Controller Direct Connection as a Router:

Enter mobile device's WiFi setting, click the WiFi function, mobile device search the WiFi and list the working WiFi controller automatically[As Figure-1], click the SSID number to connect (default is no password).



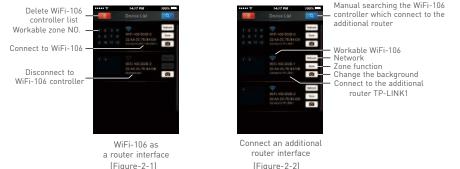
WiFi-106 LED Controller

B. Connection with an Additional Router:

Connect WiFi-106 Controller to the Additional Router Network:

a. Connect to the WiFi-106 controller, the same step as [4.2.1]

b. Click mobile device's icon 🧱 to start the software, the software will search and list the working WiFi controller automatically, and there is a blue wireless icon  $\bigotimes$  (as Figure-2-1)



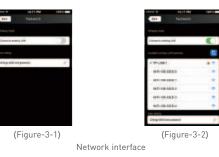
(Figure-2-2)

c. Click "Network" key to enter Network interface(as Figure-3-1), start "connect to exiting LAN", software will search the workable WiFi net SSID list, choose the specified router to connect (Attn: do not choose WiFi-106 controller). can add the WiFi-106 controller to the wireless router (as figure-3-2 the wireless router TP-LINK1)

# Repeat the abc steps if you need connecting multiple WiFi-106 controllers to this wireless router

d. Exit WiFi-106 software, enter mobile device setting-wireless network setting, choose the wireless router to connect. Device list interface shows as Figure 2-2 when re-opening the WiFi-106 software. Now completes the steps to connect to the additional router.

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Attn: In this connection mode, to avoid the mobile device automatically connect to WiFi-106 after the setting has completed, please click on the connected WiFi-106 which under the mobile device "WiFi setting". and at the message box please click "Ignore the network," (apple iOS) or "cancel save" (SUMSUNG mobile phone is "forget") to cancel the save of WiFi-106 connection





Android cancellation of the save of WiFi-106 connection

Apple cancellation of the save of WiFi-106 connection

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# 4.2.2 Main Interface ( 5 types )



### 5 Main Interface









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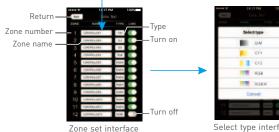
## 4.2.3 The Learning Method of Zone Control

A. Turn On Zones Control

Click "Zone" on the Device List interface, enter Zone set interface. turn on each zone, choose the LED type accordingly (zones are nameable).

[Attn]: WiFi-106 itself is defaulted as zone N0.1, connecting lights is optional, slave control will be zone N0.1 if not connected.





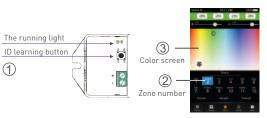






# B. Learning ID:

Short press "ID learning button" 💽 on the receiver, the running light keeps on, select the zone No. on the App and touch the color screen for 2s-3s. The buzzer long beep (meanwhile the running light on the receiver back to flash state), ID matched.



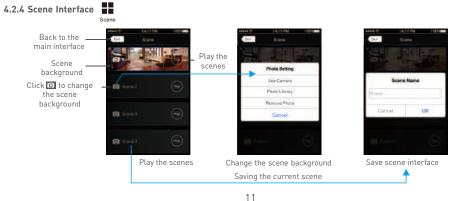
WiFi-106 LED Controller

### C. Cancelling ID:

Long press" ID learning button" 💽 on the receiver for 5s, the buzzer long beep, ID cancelled.

[Attn]: Reset function is available during ID cancellation. Considering dysfunction in rare cases, please cancel the ID and re-sync.

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## 4.2.5 Save scene 🔺

Save



Combined cycle set to play Shor press Cancel. OK

(speed & brightness is unadjustable )

4.2.6 Mode Interface for RGB / RGBW Type



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.2.7	DIY	Interface	Mode	
			Mode	





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Edit single DIY mode

Color Edit

Apply





Group Features :

- Choose several zones as one group and control in sync.
- Max 3 groups, same LED types in one group and one zone could join multiple groups.
- Enable the group status, the corresponding group will appear on the main interface.
- Group settings will be auto off if zone LED type on & off state changed.

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## A. Group



Group interface

# B. Timing





Slide left to delete timing







Group operations in main interface

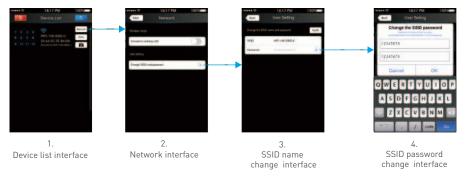


Add new timing

### WiFi-106 LED Controller

# 5. WiFi Network SSID Name and Password Setting

On device list interface, click "Network" key to enter Network interface, select "Change SSID and Password" (Click" ③ ") to enter User Setting interface. Type new SSID name and password (Min. 8 characters, consist of 0-9, a-z and A-Z). Click "Apply" button on the top right corner of the interface to save the changes.



[Attn]: Direct connection of using WiFi-106 as a router, exit the App after the SSID name and the password changed, reconnect the WiFi-106 on the mobile devices.

[Attn]: If forget the WiFi network password, press "MATCH" and "SCENE" button simultaneously above 2s to restore the factory default settings and delete the WiFi network password (see P5) [Restore factory settings / Delete password]

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WiFi-106 LED Controller

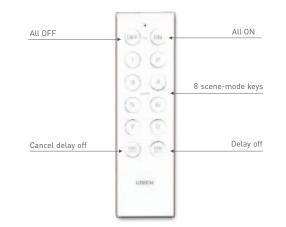
# 6. Remote Operating Instructions

# Learning ID

Short press "MATCH" on WiFi-106, the buzzer long beep, press any key on F12, the buzzer beep again, ID matched.

# Cancelling ID

Long press "MATCH" on WiFi-106 above 6s, the buzzer long beep, ID cancelled (cancelled all matched remotes).



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For extra router connection, just press " 🔍 " on Device List interface to research WiFi-106.



WiFi-106 LED Controller

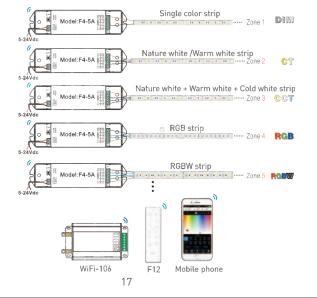
# 7. Wiring Diagram

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7.1 Connection Between Zone Receiver to LEDs ( Same as WiFi-106 )

[Attn]:WiFi-106 itself is defaulted as zone N0.1, connecting lights is optional, slave control will be zone N0.1, if not connected.

All zones could be used for same LED types or not. e.g. single color dimming in all zones, all set to DIM type. Set different LED type in each zone accordingly (Dimming, CT or RGB, etc.).



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### WiFi-106 LED Controller

# 7.4 Remote Distance Reference

[ATth]: following distance figures is measured in spacious environment. Please refer to the actual test distance before installation.

