



General

Product Type	Converter, Wireless
Length (mm)	55
Width (mm)	55
Height (mm)	21
Housing Color	White
Housing Material	Plastic
Mounting	Surface mounted
Weight (g)	70

Electronics

Input Domain	DC
Input Voltage	5 ~ 24V DC
Power Supply	N/A

Lighting

Color Range	RGBW
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Control

Output Signal	DMX
Control	DMX

Environmental

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

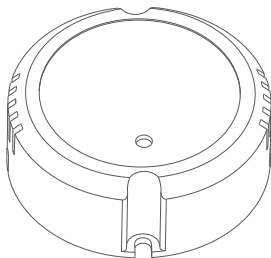
CE IP20 5^{year} warranty

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.

Wireless Module

Model: EBOX-DMX-PRO



FC CE RoHS (5-Year Warranty)

Product Introduction

EBOX-DMX-PRO wireless module applies to L-BUS wireless communication protocol and converts it to DMX512 through RF wireless communication technology, which can work with LTECH DMX512 LED dimmable drivers and is compatible with all DMX products in the market. Relying on L-BUS wireless technology application, it has removed the complex cabling procedure and expensive technical commissioning fees, which makes it become more easier for new or retrofit installation.

Technical Specs

Input Voltage: 5-24Vdc

Output: DMX512

Wireless Signal: RF 2.4GHz

Zones: 16

DMX Channels: 1-512

Working Temp.: -30°C~55°C

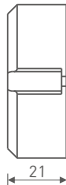
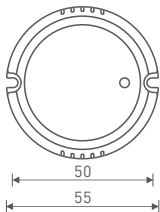
Dimensions (L×W×H): 55×55×21mm

Package Size (L×W×H): 65×65×26mm

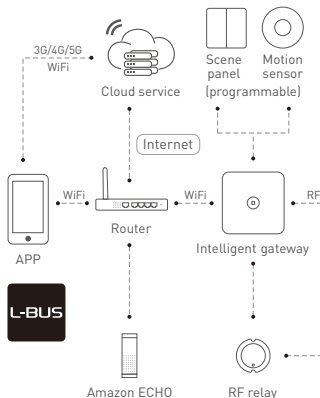
Weight (G.W.): 70g

Product Size

Unit: mm

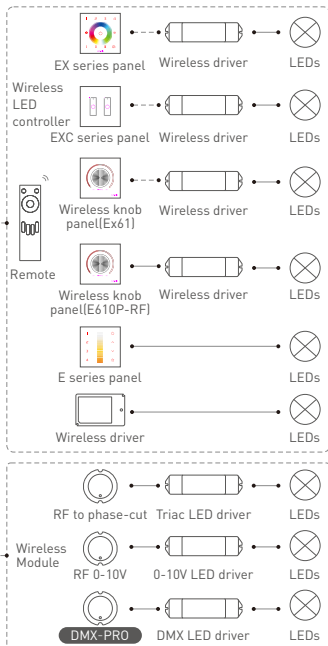


L-BUS



— Wireless connection
- - - Wired connection

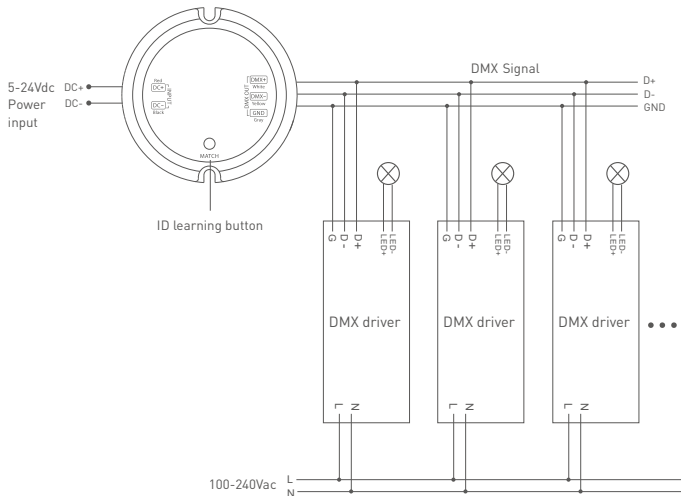
EBOX-DMX-PRO Wireless Module



Wiring Diagram

Input wire: 18AWG / 0.75^{mm}

Output wire: 20AWG / 0.5^{mm}

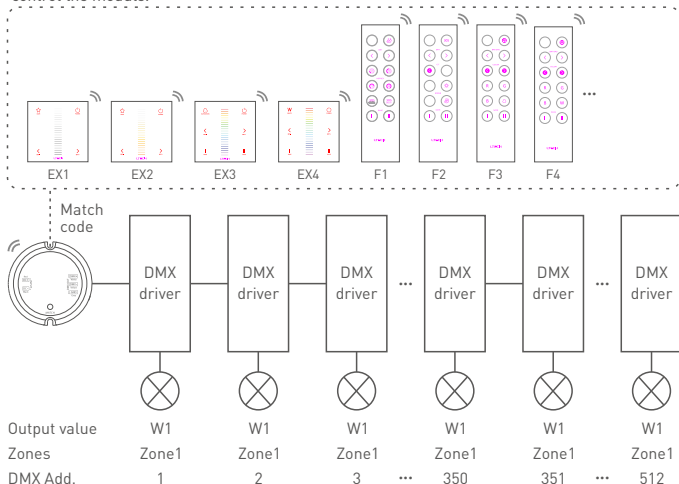


Single- Zone Control

When single-zone devices are paired up, each zone can be controlled separately. (Please remove the paired single-zone devices before you pair up again)

Single-zone devices: EX1/EX2/EX3/EX4/F1/F2/F3/F4

* If you pair a multi-zone device with the module under the single-zone control, the zone you pair for the module works only and other zones of this multi-zone device couldn't work and control the module.



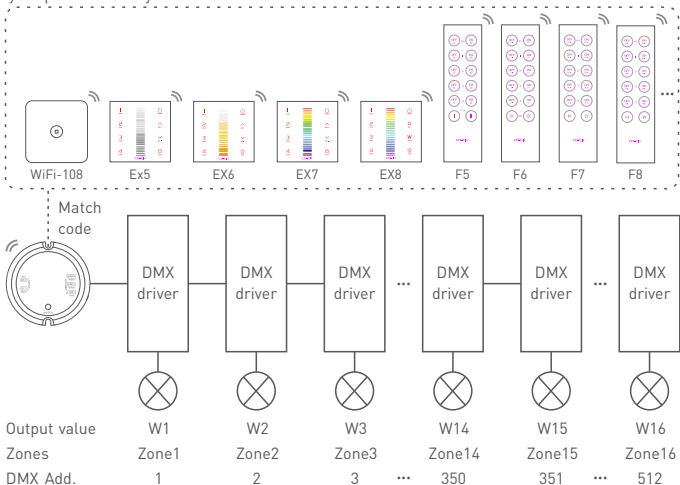
* Please refer to P7 "DMX Channel Output Table" for DMX addressing on DIM, CT, RGB, RGBW, RGBWY.

Multi-Zone Control

When multi-zone devices are paired up, you are allowed to control multiple zones simultaneously or to control each zone individually. (Please remove the paired multi-zone devices before you pair up again)

Multi-zone devices: WiFi-106/WiFi-108/EX5/EX6/EX7/EX8/F5/F6/F7/F8/RC4/Q1/Q2/Q4/Q5

* If you pair a single-zone device with the module under the multi-zone control, the first zone your pair works only and other zones couldn't work and control the module.



* Please refer to P8-P9 "DMX Channel Output Table" for DMX addressing on DIM, CT, RGB, RGBW, RGBWY.

DMX Channel Output Table for Single-Zone Control

A DIM fixture takes up 1 channel. CT(standard) and CT(default) fixtures takes up 2 channels respectively. A RGB fixture takes up 3 channels, RGBW for 4 channels and RGBWY for 5 channels, as shown below in the table.

DMX Add. \ Type Zone	DIM	CT(standard)	CT(default)	RGB	RGBW	RGBWY
1	W1	C1	BRT1	R1	R1	R1
2	W1	W1	CW1	G1	G1	G1
3	W1	C1	BRT1	B1	B1	B1
4	W1	W1	CW1	R1	W1	W1
5	W1	C1	BRT1	G1	R1	Y1
6	W1	W1	CW1	B1	G1	R1
7	W1	C1	BRT1	R1	B1	G1
8	W1	W1	CW1	G1	W1	B1
9	W1	C1	BRT1	B1	R1	W1
10	W1	W1	CW1	R1	G1	Y1
11	W1	C1	BRT1	G1	B1	R1
12	W1	W1	CW1	B1	W1	G1
13	W1	C1	BRT1	R1	R1	B1
14	W1	W1	CW1	G1	G1	W1
15	W1	C1	BRT1	B1	B1	Y1
16	W1	W1	CW1	R1	W1	R1
17	W1	C1	BRT1	G1	R1	G1
18	W1	W1	CW1	B1	G1	B1
19	W1	C1	BRT1	R1	B1	W1
20	W1	W1	CW1	G1	W1	Y1
21	W1	C1	BRT1	B1	R1	R1
...	...	...	...	...	...	...
510	W1	W1	CW1	B1	G1	Y1
511	W1	C1	BRT1		B1	
512	W1	W1	CW1		W1	

DMX Channel Output Table for 4-Zone Control

Every 4 addresses of DIM fixtures circulate in four zones. Every 8 addresses of CT(standard) and CT(default) fixtures circulate in four zones. Every 12 addresses of a RGB fixture circulate in four zones. Every 16 addresses of a RGBW fixture circulate in four zones. Every 20 addresses of a RGBWY fixture circulate in four zones, as shown below in the table.

DMX Add. \ Type Zone	DIM	CT(standard)	CT(default)	RGB	RGBW	RGBWY
1	W1	C1	BRT1	R1	R1	R1
2	W2	W1	CW1	G1	G1	G1
3	W3	C2	BRT2	B1	B1	B1
4	W4	W2	CW2	R2	W1	W1
5	W1	C3	BRT3	G2	R2	Y1
6	W2	W3	CW3	B2	G2	R2
7	W3	C4	BRT4	R3	B2	G2
8	W4	W4	CW4	G3	W2	B2
9	W1	C1	BRT1	B3	R3	W2
10	W2	W1	CW1	R4	G3	Y2
11	W3	C2	BRT2	G4	B3	R3
12	W4	W2	CW2	B4	W3	G3
13	W1	C3	BRT3	R1	R4	B3
14	W2	W3	CW3	G1	G4	W3
15	W3	C4	BRT4	B1	B4	Y3
16	W4	W4	CW4	R2	W4	R4
17	W1	C1	BRT1	G2	R1	G4
...	...	...	...	...	...	...
498	W2	W3	CW3	B4	G4	B4
499	W3	C4	BRT4	R1	B4	W4
500	W4	W4	CW4	G1	W4	Y4
...	...	...	...	...	...	...
510	W2	W3	CW1	B4	G4	Y4
511	W3	C4	BRT1		B4	
512	W4	W4	CW1		W4	

DMX Channel Output Table for 16- Zone Control

Every 16 addresses of DIM fixtures circulate in 16 zones. Every 32 addresses of CT(standard) and CT(default) fixtures circulate in 16 zones. Every 48 addresses of a RGB fixture circulate in 16 zones. Every 64 addresses of a RGBW fixture circulate in 16 zones. Every 80 addresses of a RGBWY fixture circulate in 16 zones, as shown below in the table.

DMX Add.	Type Zone	DIM	CT(standard)	CT(default)	RGB	RGBW	RGBWY
1		W1	C1	BRT1	R1	R1	R1
2		W2	W1	CW1	G1	G1	G1
3		W3	C2	BRT2	B1	B1	B1
4		W4	W2	CW2	R2	W1	W1
5		W5	C3	BRT3	G2	R2	Y1
6		W6	W3	CW3	B2	G2	R2
7		W7	C4	BRT4	R3	B2	G2
8		W8	W4	CW4	G3	W2	B2
9		W9	C5	BRT5	B3	R3	W2
10		W10	W5	CW5	R4	G3	Y2
11		W11	C6	BRT6	G4	B3	R3
12		W12	W6	CW6	B4	W3	G3
13		W13	C7	BRT7	R5	R4	B3
14		W14	W7	CW7	G5	G4	W3
15		W15	C8	BRT8	B5	B4	Y3
16		W16	W8	CW8	R6	W4	R4
...		...	...	...	...	...	...
479		W3	C16	BRT16	G16	B8	W16
480		W4	W16	CW16	B16	W8	Y16
...		...	...	...	...	...	...
499		W3	C2	BRT2		B13	
500		W16	W2	CW2		W13	
...		...	...	...		...	
511		W15	C16	BRT16		B16	
512		W16	W16	CW16		W16	

Match Code (ID learning button method)

Step 1:

Short press "ID learning button" on EBOX-DMX-PRO, the lamp flashes.
Please complete step 2 within 15 seconds.



Step 2:

Match code with F series remotes:

Single zone remote:

Long press On/Off key on the remote.

Multi-zone remote:

Long press the matching zone's
ON & OFF keys simultaneously.



Match code with RC4-RF-B remote:

Long press the matching zone's On
key on RC4-RF-B.



Match code with EX series panels:

Single zone panel:

Long press On/Off key, then press any key.

Multi-zone panel:

Long press On/Off key, then press the
matching zone key.



Match code with 106/108 gateways:

Turn on the APP, enter "Zone Settings"
interface and click "MATCH" key in the
upper right corner , then follow the
prompts.

* Above operations work only when panels are power-on.

Step 3:

The lamps of EBOX-DMX-PRO flash fast and then stop flashing, then match code successfully.

Match Code (power on method)

Step 1:

EBOX-DMX-PRO power off.



Step 2:

Match code with F series remotes:

Single zone remote: Hold down On/Off key, meanwhile EBOX-DMX-PRO power on.

Multi-zone remote: Hold down the matching zone's On & Off keys simultaneously, meanwhile EBOX-DMX-PRO power on.



Match code with RC4-RF-B remote:

Hold down the matching zone's On key of RC4-RF-B, meanwhile EBOX-TD power on.



Match code with EX series panels:

A. Single zone panel: Long press ON/OFF key until all indicator lights flash.

Multi-zone panel: Long press ON/OFF key until all zone's indicator lights flash.

B. EBOX-DMX-PRO power on, the lamp flashes slowly. Please complete step C within 15s.

C. Single zone panel: press any key on panel.

Multi-zone panel: press the matching zone key.



Match code with 106/108 gateways:

Turn on the APP, enter "Zone Settings" interface and click "MATCH" key in the upper right corner, then follow the prompts.



* Above operations work only when panels are power-on.

Step 3:

The lamps of EBOX-DMX-PRO flash fast and then stop flashing, then match code successfully.

Wireless Module Clear Code

Long press ID learning button on EBOX-DMX-PRO for 6 seconds , the lamp of EBOX-DMX-PRO flashes, then release the button and successfully clear code.



Wireless Module Color Temperature Switch

CT mode and CT2 mode switch to each other:

Long press ID learning button on EBOX-DMX-PRO for 10 seconds, the lamp of EBOX-DMX-PRO puts out, then release the button and switch successfully.



Warranty Agreement

Thanks for your purchasing. Our products offer a 5-year warranty and you can enjoy free repair services within 5 years from the date of receiving products. Please contact your suppliers before sending products back to repair.

Warranty exclusions below:

- Any failure or damage of products caused by improper installation, operation, maintenance and storage ,which results from failing to follow manuals.
- Exceeding warranty periods.
- Alter or tear up product bar codes without authorization.
- Change configuration files of products or dismantle products for repair without authorization.
- Artificial damage of products, such as Improper voltage, high temperature, water damage, mechanical damage, smash, serious oxidation, and rust.
- Failures or damage of products caused by force majeure , such as earthquake, fire disaster, flood, and electric shock.
- Failures or damage of products not caused by product designs, technology, manufacturing, or quality.
- * This manual is subject to changes without further notice. Product functions depend on the goods. Please feel free to contact our official distributors if you have any question.