Wireless Repeater

Model: EBOX-AP

FC CE RoHS warranty 1 year ISO9001:2008

1. System diagram:

LT-BUS®

Wireless remote

Mobile phone

WiFi gateway

Router

- - - Wireless connection
— Wired connection

Wireless repeater

Wireless repeater   EBOX-AP

RF — Wireless driver

RF — Wireless driver

DMX512 — DMX driver

12-24Vdc

RF to DMX — DMX512 — DMX LED driver

RF to 10VPWM — 10VPWM — 0-10V LED driver

RF to ELV — ELV — Triac LED driver
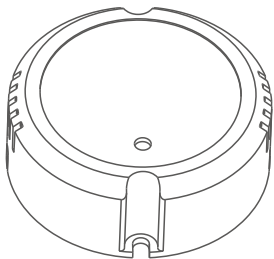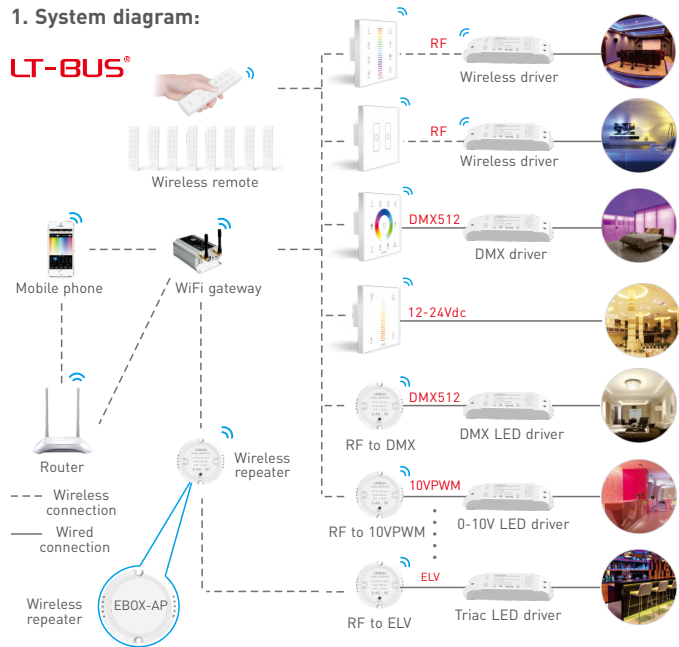
EBOX-AP wireless repeater applies LT-BUS wireless communication protocol for wireless signal extension, it is not necessary to pair via its factory default setting, greatly ensures its stability and wide controlling area among LT-BUS wireless communication devices, removing the complex cabling procedure, to make it become more easier for new or retrofit installations.
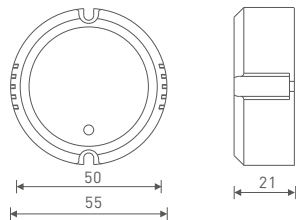
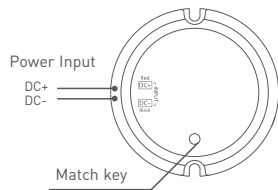## 2. Technical Specs:

EBOX-AP Wireless Repeater

Input Voltage:	5~24Vdc	Dimensions:	L55×W55×H21(mm)
Wireless Distance:	30m (eye to eye)	Package Size:	L65×W65×H26(mm)
Wireless Signal:	RF 2.4GHz	Weight(G.W.):	70g
Working Temp.:	-30℃~55℃		

3. Product Size:

Unit: mm

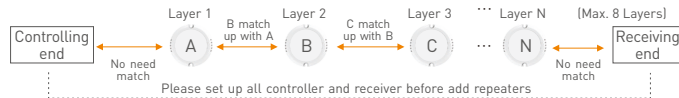50
55
21

4. Terminals:

Power Input
DC+
DC-

Match key

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5. Learning Method:

5.1 Interlayer diagram

The repeater leaves the factory by default and can be used without learning, but only single-layer communication (the default is layer 1). For long transmission distance, a multi-level learning (up to 8 layers) is required. For example:

Controlling end — Layer 1 A — B match up with A — Layer 2 B — C match up with B — Layer 3 C — ··· Layer N N — Receiving end (Max. 8 Layers)

No need match

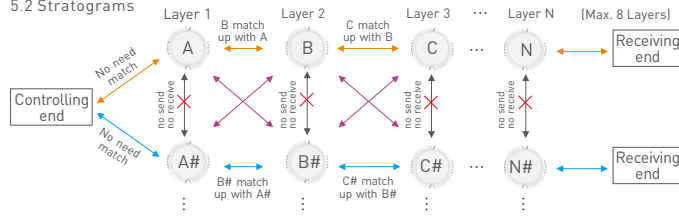Please set up all controller and receiver before add repeaters

No need match

Interlayer learning method (e.g.: B match up with A)
Long press the match key of B repeater for about 3 seconds until the internal indicator light flashes, and press A's match key within 10 seconds. At this time, B repeater's indicator lights keep on after flash 3 times, match successfully. The other layers learn the same way.

Clear ID code: Long press "match key" for 6s, the indicator light flicker 5 times slowly, clear code successfully.

5.2 Stratograms

Controlling end — Layer 1 A — B match up with A — Layer 2 B — C match up with B — Layer 3 C — ··· Layer N N — Receiving end (Max. 8 Layers)

No need match

no send no receive

A# — B# match up with A# — B# — C# match up with B# — C# — ··· — N# — Receiving end

No need match
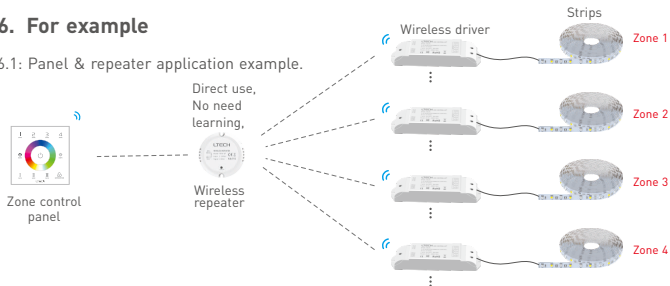
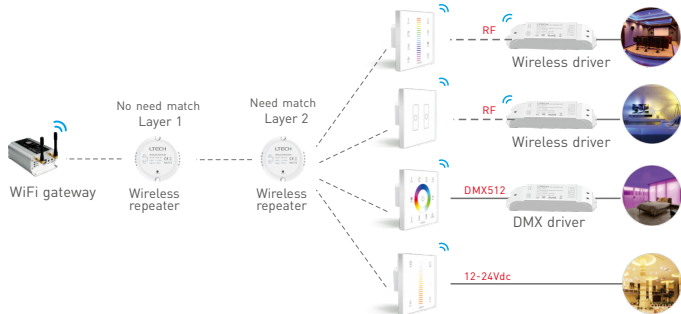A repeater between adjacent layers can form a network communication.

6. For example

6.1: Panel & repeater application example.

Zone control panel

Direct use,
No need learning,

Wireless repeater

Wireless driver

Strips

Zone 1

Zone 2

Zone 3

Zone 4

E.g 6.2: WiFi gateway & repeater application example.

WiFi gateway

No need match
Layer 1

Wireless repeater

Need match
Layer 2

Wireless repeater

RF

Wireless driver

RF

Wireless driver

DMX512

DMX driver

12-24Vdc

6.3 Multi-panel control application example.

Zone 2

Wireless driver

Lamps

Zone 1

Wireless driver

Lamps

Need match
Layer 3

Wireless repeater

Zone 3

Wireless driver

Lamps

Need match
Layer 2

Zone control panel

No need match
Layer 1

Wireless repeater

No need match
Layer 1

Wireless repeater

No need match
Layer 1

Wireless repeater

Zone 4

Wireless driver

Lamps

Zone control panel

Zone control panel

Zone control panel