

KC868-HxB relay controller MQTT command

1. **command_topic: "relayX/xxxxxxxxxxxxxxxxxxxxxxxx/set"**

X is channel number.

If you are using KC868-H32BS/H32B, the command_topic is:

relay32/xxxxxxxxxxxxxxxxxxxxxxxx/set

If you are using KC868-H16B, the command_topic is:

relay16/xxxxxxxxxxxxxxxxxxxxxxxx/set

If you are using KC868-H8B, the command_topic is:

relay8/xxxxxxxxxxxxxxxxxxxxxxxx/set

If you are using KC868-H4B, the command_topic is:

relay4/xxxxxxxxxxxxxxxxxxxxxxxx/set

If you are using KC868-H2B, the command_topic is:

relay2/xxxxxxxxxxxxxxxxxxxxxxxx/set

Note: xxxxxxxxxxxxxxxxxxxxxxxx is your controller's ID, it's 24bit. You can find in controller's config webpage.

Example

A. **turn ON relay1:**

Send: Payload={"relay1":{"on":1}}

B. **turn OFF relay1:**

Send: Payload={"relay1":{"on":0}}

on:1 is ON, 0 is OFF

if successful will feedback:

```
{"relay1":{"on":1},"relay2":{"on":0},"relay3":{"on":0},"relay4":{"on":0},"relay5":{"on":0},"relay6":{"on":0},"relay7":{"on":0},"relay8":{"on":0},"relay9":{"on":0},"relay10":{"on":0},"relay11":{"on":0},"relay12":{"on":0},"relay13":{"on":0},"relay14":{"on":0},"relay15":{"on":0},"relay16":{"on":0},"relay17":{"on":0},"relay18":{"on":0},"relay19":{"on":0},"relay20":{"on":0},"relay21":{"on":0},"relay22":{"on":0},"relay23":{"on":0},"relay24":{"on":0},"relay25":{"on":0},"relay26":{"on":0},"relay27":{"on":0},"relay28":{"on":0},"relay29":{"on":0},"relay30":{"on":0},"relay31":{"on":0},"relay32":{"on":0},"input1":{"on":0},"input2":{"on":0},"input3":{"on":0},"input4":{"on":0},"input5":{"on":0},"input6":{"on":0}}
```

Feedback include 32 relay output state, 6 input state

C. **turn ON/OFF multi relay by one command: turn ON relay1,relay2,relay3**

Send: Payload={"relay1":{"on":1}}{"relay2":{"on":1}}{"relay3":{"on":1}}

if successful will feedback:

```
{"relay1":{"on":1},"relay2":{"on":0},"relay3":{"on":0},"relay4":{"on":0},"relay5":{"on":0},"relay6":{"on":0},"relay7":{"on":0},"relay8":{"on":0},"relay9":{"on":0},"relay10":{"on":0},"relay11":{"on":0},"relay12":{"on":0},"relay13":{"on":0},"relay14":{"on":0},"relay15":{"on":0},"relay16":{"on":0},"relay17":{"on":0},"relay18":{"on":0},"relay19":{"on":0},"relay20":{"on":0},"relay21":{"on":0},"relay22":{"on":0},"relay23":{"on":0},"relay24":{"on":0},"relay25":{"on":0},"relay26":{"on":0},"relay27":{"on":0},"relay28":{"on":0},"relay29":{"on":0},"relay30":{"on":0},"relay31":{"on":0},"relay32":{"on":0},"input1":{"on":0},"input2":{"on":0},"input3":{"on":0},"input4":{"on":0},"input5":{"on":0},"input6":{"on":0}}
```

Feedback include 32 relay output state, 6 input state

D. **Read relay and input port satet:**

Send: Payload={"relay32":{"read":1}}

if successful will feedback:

```
{ "relay1": {"on": 1}, "relay2": {"on": 0}, "relay3": {"on": 0}, "relay4": {"on": 0}, "relay5": {"on": 0}, "relay6": {"on": 0}, "relay7": {"on": 0}, "relay8": {"on": 0}, "relay9": {"on": 0}, "relay10": {"on": 0}, "relay11": {"on": 0}, "relay12": {"on": 0}, "relay13": {"on": 0}, "relay14": {"on": 0}, "relay15": {"on": 0}, "relay16": {"on": 0}, "relay17": {"on": 0}, "relay18": {"on": 0}, "relay19": {"on": 0}, "relay20": {"on": 0}, "relay21": {"on": 0}, "relay22": {"on": 0}, "relay23": {"on": 0}, "relay24": {"on": 0}, "relay25": {"on": 0}, "relay26": {"on": 0}, "relay27": {"on": 0}, "relay28": {"on": 0}, "relay29": {"on": 0}, "relay30": {"on": 0}, "relay31": {"on": 0}, "relay32": {"on": 0}, "input1": {"on": 0}, "input2": {"on": 0}, "input3": {"on": 0}, "input4": {"on": 0}, "input5": {"on": 0}, "input6": {"on": 0}}
```

Feedback include 32 relay output state, 6 input state

2. feedback state topic:

state_topic: 'relayX/xxxxxxxxxxxxxxxxxxxxxxxx/state'

X is channel number.

If you are using KC868-H32BS/H32B, the command_topic is:

relay32/xxxxxxxxxxxxxxxxxxxxxxxx/state

If you are using KC868-H16B, the command_topic is:

relay16/xxxxxxxxxxxxxxxxxxxxxxxx/state

If you are using KC868-H8B, the command_topic is:

relay8/xxxxxxxxxxxxxxxxxxxxxxxx/state

If you are using KC868-H4B, the command_topic is:

relay4/xxxxxxxxxxxxxxxxxxxxxxxx/state

If you are using KC868-H2B, the command_topic is:

relay2/xxxxxxxxxxxxxxxxxxxxxxxx/state

Note: xxxxxxxxxxxxxxxxxxxxxxx is your controller's ID, it's 24bit. You can find in controller's config webpage.

The screenshot shows the MQTTBox application interface. On the left, a 'Publish' dialog is open with the following details:

- Topic to publish: relay32/346a420f766d8a517e29c770/set
- QoS: 0 - Almost Once
- Retain:
- Payload Type: Strings / JSON / XML / Characters
- e.g.: {"hello":"world"}
- Payload: {"relay32":{"read":1}}
- Buttons: Publish
- Preview: {"relay32":{"read":1}}, topic: relay32/346a420f766d8a517e29c770/set, qos: 0, retain: false

On the right, a message preview window is open for the topic 'relay32/346a420f766d8a517e29c770/state'. It displays the following JSON payload:

```
{ "relay1": {"on": 1}, "relay2": {"on": 0}, "relay3": {"on": 0}, "relay4": {"on": 0}, "relay5": {"on": 0}, "relay6": {"on": 0}, "relay7": {"on": 0}, "relay8": {"on": 0}, "relay9": {"on": 0}, "relay10": {"on": 0}, "relay11": {"on": 0}, "relay12": {"on": 0}, "relay13": {"on": 0}, "relay14": {"on": 0}, "relay15": {"on": 0}, "relay16": {"on": 0}, "relay17": {"on": 0}, "relay18": {"on": 0}, "relay19": {"on": 0}, "relay20": {"on": 0}, "relay21": {"on": 0}, "relay22": {"on": 0}, "relay23": {"on": 0}, "relay24": {"on": 0}, "relay25": {"on": 0}, "relay26": {"on": 0}, "relay27": {"on": 0}, "relay28": {"on": 0}, "relay29": {"on": 0}, "relay30": {"on": 0}, "relay31": {"on": 0}, "relay32": {"on": 0}, "input1": {"on": 0}, "input2": {"on": 0}, "input3": {"on": 0}, "input4": {"on": 0}, "input5": {"on": 0}, "input6": {"on": 0}}
```

Below the payload, the message metadata is shown:

```
qos : 0, retain : false, cmd : publish, dup : false, topic : relay32/346a420f766d8a517e29c770/state, messageid : , length : 748, Raw payload : 12334114101108971214934581233411111034584812544341141011089712150345812334111103458481254434114101108971215134581233411110345848125443411410110897121523458123341111034584812544341141011089712153345812334111103458481254434114101108971215434581233411110345848125443411410110897121553458123341111034584812544341141011089712156345812334111103458481254434114101108971215734581233411110345848125443411410110897121494834581233411110345848125443411410110897121494934581233411110345848125443411410110897121495034581233411110345848125443411
```


The following is for KC868-H32BS only:

Momentary Time29:	<input type="text" value="1"/>	Note: Second (1~10000)
Momentary Time30:	<input type="text" value="1"/>	Note: Second (1~10000)
Momentary Time31:	<input type="text" value="1"/>	Note: Second (1~10000)
Momentary Time32:	<input type="text" value="1"/>	Note: Second (1~10000)

Key Setting

Note: 32 bit number: 1:active 0:deactive such as: 11111111111111111000000000000000 means: when double click,CH1-CH16 will be ON

SW trigger output:	<input type="text" value="Disable"/>
Double_Click01:	<input type="text" value="Disable"/>
Then Value01:	<input type="text"/>
Double_Click02:	<input type="text" value="Disable"/>
Then Value02:	<input type="text"/>
Double_Click03:	<input type="text" value="Disable"/>
Then Value03:	<input type="text"/>



"SW trigger output" Enable:

32 channel Switch button control 32 channel output.

- a. such as key1 press 1 time will trigger output1. key2 press 1 time will trigger output2. key3 press 1 time will trigger output3. until key32 press 1 time will trigger output32.
- b. support "double click" define everyone of 32 key's function.
- c. ALL ON button: turn ON all (32 channel) output
- d. ALL OFF button: turn OFF all (32 channel) output

"SW trigger output" Disable:

- a. switch button will not control output directly, but will feedback message by TCP string or by MQTT message.
- b. if ethernet work mode = "TCP Server" or "TCP Client" will feedback:

RELAY-COM-255,x,y,OK

x is switch button number
y is channel x's output relay last state

for example:

RELAY-COM-255,2,1,OK means: switch button2 have pressed, now the output2 is ON (because it is 1)

RELAY-COM-255,3,0,OK means: switch button3 have pressed, now the output2 is OFF (because it is 0)

RELAY-COM-255,33,0,OK means: switch button33 (ALL OFF) have pressed, now all output is ON

RELAY-COM-255,34,0,OK means: switch button34 (ALL ON) have pressed, now all output is OFF

- c. if ethernet work mode = "MQTT" will feedback:

{"SWx":{"on":y}}

x is switch button number (1-34) 33: "ALL OFF" button 34: "ALL ON" button

y is click times. number (1-6,99) 1: one click 2: double click 3: three times click 4: four times click 5: five times click

6: ≥ 6 times click if "hold on" button > 3 seconds $y=99$

for example:

{"SW10":{"on":1}} means switch10 press 1 time

{"SW11":{"on":2}} means switch11 press 2 time

{"SW12":{"on":3}} means switch12 press 3 time

{"SW13":{"on":4}} means switch13 press 4 time

{"SW14":{"on":5}} means switch14 press 5 time

{"SW15":{"on":6}} means switch15 press 6 time or maybe > 6 times

{"SW16":{"on":99}} means switch16 is hold on (long time pressed > 3 seconds)

{"SW33":{"on":1}} means "ALL OFF" button pressed

{"SW33":{"on":0}} means "ALL OFF" button released

{"SW34":{"on":1}} means "ALL ON" button pressed

{"SW34":{"on":0}} means "ALL ON" button released