

KC868-A series board protocol – MQTT command

Note: This protocol document use for KinCony smart controller:

KC868-AM ASR A2 A4 A4S A6 A8 A8M A8S A16 A16S E16S A32 A32M A64 A128 AG
AK AI AIO AP

Different board will have different channel of digital output, digital input , ADC, DAC, so
the protocol is same , just according to the hardware resource to set channel number.

Command topic format: Board model/UID/SET

State topic format: Board model/UID/STATE

If using KC868-A64:

Command topic: KC868_A64/B48A0A404664/SET

State topic: KC868_A64/B48A0A404664/STATE

1. Set ON/OFF of one digital output channel

send: {"output64":{"value":true}} means: turn ON output64

send: {"output64":{"value":false}} means: turn OFF output64

2. Feedback STATE

If board first time connect to mqtt broker, will auto feedback all state of board.

If digital input or output STATE changed by any way, will auto feedback mqtt message.

For example:

{"output1":{"value":true}} output1 is ON

{"output2":{"value":false}} output2 is OFF

{"input3":{"value":true}} input3 is trigger

{"input4":{"value":false}} input4 is not trigger

If you send control output command, then will feedback all STATE of board together, such as:

```
{{"output1":{"value":true},"output2":{"value":false}},.....{"input1":{"value":true},"input2":{"value":true}},.....{"adc1":  
{"value":2610}},.....{"dac1":{"value":10}},.....}
```

3. Set DAC value

Send: {"dac1":{"value":58}}

Set DAC1 value=58, range is 0-255

4. Digital output ALL ON/OFF

send: {"all_outputs":{"value":true}}

turn ON all output

send: {"all_outputs":{"value":false}}

turn OFF all output

true=ALL ON, false=ALL OFF

5. Read board all data

send: {"get_datas":{"value":true}}

feedback all data:

```
{"input1":{"value":false},"input2":{"value":false},"input3":{"value":false},"input4":{"value":false},"input5":{"value":false},"input6":{"value":false},"input7":{"value":false},"input8":{"value":false},"input9":{"value":false},"input10":{"value":false},"input11":{"value":false},"input12":{"value":false},"output1":{"value":false},"output2":{"value":false},"output3":{"value":false},"output4":{"value":false},"adc1":{"value":0},"adc2":{"value":0},"adc3":{"value":0},"adc4":{"value":0},"dac1":{"value":133},"dac2":{"value":0},"dac3":{"value":0},"dac4":{"value":0},"dac5":{"value":0},"dac6":{"value":0},"dac7":{"value":0},"dac8":{"value":0},"dac9":{"value":0},"dac10":{"value":0},"dac11":{"value":0},"dac12":{"value":0},"dac13":{"value":0},"dac14":{"value":0},"dac15":{"value":0},"dac16":{"value":0},"sensor1":{"temperature":77.9,"humidity":-100.0},"sensor2":{"temperature":-100.0,"humidity":-100.0}}
```

"sensor1":{"temperature":77.9,"humidity":-100.0},"sensor2":{"temperature":-100.0,"humidity":-100.0}

-100: data invalid

The display unit of temperature is set in the webpage

6. Set ON/OFF of multi digital output channel

send: {"output1":{"value":true},"output2":{"value":false}} means: turn ON output1 and turn OFF output2

feedback all STATE

```
{"output1":{"value":true},"output2":{"value":false}},.....{"input1":{"value":true},"input2":{"value":true}},.....{"adc1":{"value":2610}},.....{"dac1":{"value":10}},.....}
```

7. Send one IR signal have learned

send: {"run_ir":{"value":1}} means: send IR signal that id=1

feedback: {"run_ir1":{"value":success}}

8. Send one RF signal have learned

send: {"run_rf":{"value":1}} means: send RF signal that id=1

feedback: {"run_rf1":{"value":success}}

9. Set beep output

send: {"set_beep":{"value":1}} means: beep ON

send: {"set_beep":{"value":0}} means: beep OFF

feedback: {"set_beep":{"value":success}}