

# Wifi IoT Relay Board Based on ESP8266

## with MOBOTRONIX software

### How to start :

- open an account on [www.cloudmqtt.com](http://www.cloudmqtt.com)
- after about 15 seconds the WiFi IoT board starts the configuration WebServer
- connect a PC or a smartphone over WiFi to the device MBXWiFi.....
- Android smartphones ask to confirm the WiFi connection without Internet
- start a browser and put in the IP address **192.168.4.1**
- **SSID and Password : given from your WiFi router**
- fill out the form, check all the data and press « Save Config ». (Let prefix « /IoTmanager » as it is. This could change with a new version of the IoTmanager)
- wait for the blinking status LED
- switch the Relay Board OFF and after 5 seconds ON
- if the configuration is correct, the Relay Board connects to the [www.cloudmqtt.com](http://www.cloudmqtt.com) server, the status LED lights up and stays ON

### How to reconfigure :

- after power ON, the status LED lights up and one of the switches on the board has to be pushed within 5 seconds
- the status LED switches OFF for some seconds and lights up again. This means the configuration is ready.
- if the WiFi Router was configured before, the configuration is available in a browser (not on an Android smartphone) under **<http://esp8266.local>**
- an Android smartphone has to be connected directly over WiFi to the MBXWiFi... device and configured using the browser under the address **192.168.4.1**
- fill out the form, check all the data and press « Save Config ». (Let prefix « /IoTmanager » as it is. This could change with a new version of the IoTmanager)
- wait for the blinking status LED
- switch the Relay Board OFF and after 5 seconds ON
- if the configuration is correct, the Relay Board connects to the [www.cloudmqtt.com](http://www.cloudmqtt.com) server, the status LED lights up and stays ON

### Erase configuration :

- after power ON, the status LED lights up and one of the switches on the board has to be pushed within 5 seconds
- the status LED switches OFF for some seconds and lights up again. This means the configuration is ready.
- if the WiFi Router was configured before, the configuration is available in a browser (not on an Android smartphone) under **<http://esp8266.local>**
- an Android smartphone has to be connected directly over WiFi to the MBXWiFi... device and configured using the browser under the address **192.168.4.1**
- click on « Erase »
- wait for the blinking status LED
- switch the Relay Board OFF and after 5 seconds ON

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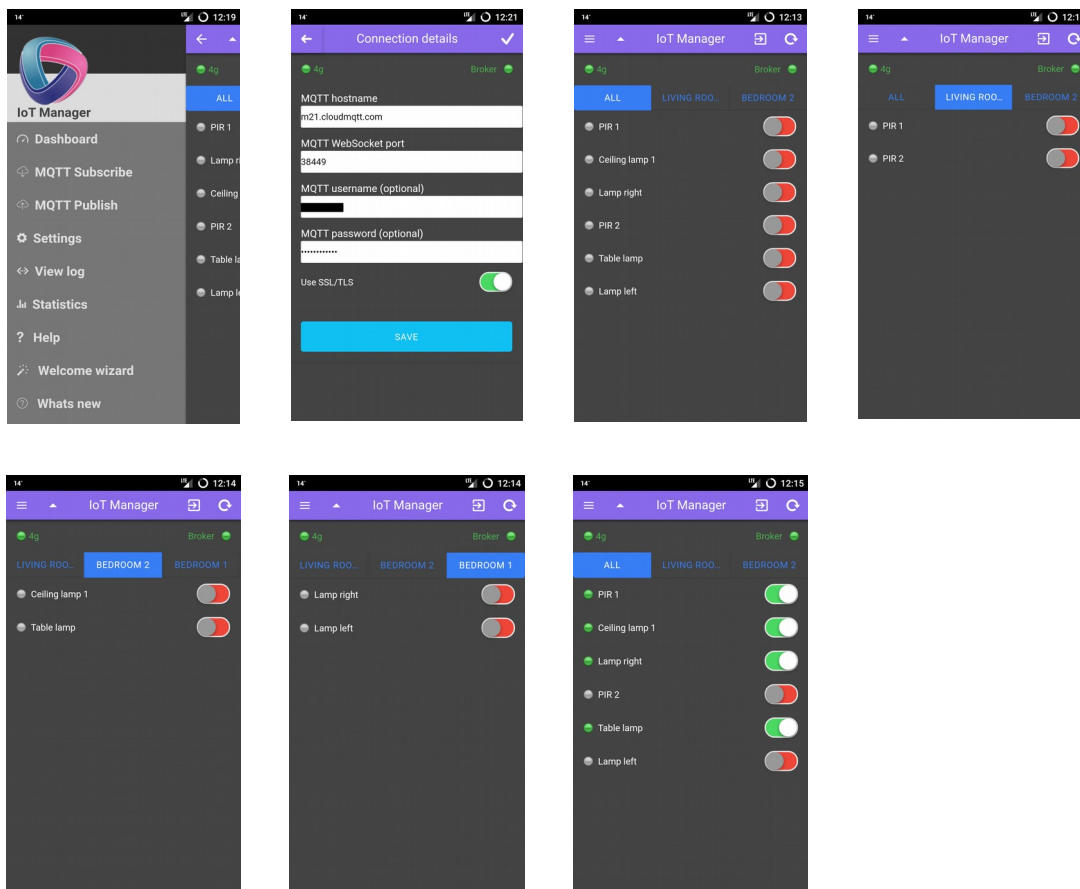
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### Software update :

- after power ON, the status LED lights up and one of the switches on the board has to be pushed within 5 seconds
- the status LED switches OFF for some seconds and lights up again. This means the configuration is ready.
- if the WiFi Router was configured before, the configuration is available in a browser (not on an Android smartphone) under **http://esp8266.local**
- an Android smartphone has to be connected directly over WiFi to the MBXWiFi... device and configured using the browser under the address **192.168.4.1**
- click on « Update »
- if there is an update available it will be downloaded and installed. The version of the installed software is seen during the configuration : WiFi IoT Relay Board Setup Version 1
- wait for the blinking status LED
- switch the Relay Board OFF and after 5 seconds ON

### IoTmanager :

- install the Android IoTmanager
- Settings => Set connection data



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The screenshot shows the CloudMQTT Plans page with the following details:

Plan Name	Connections	Bandwidth	Support	Price
Cute Cat	10 connections	10 Kbit/s	-	Free
Keen Koala	100 connections	100 Kbit/s	e-mail, chat	\$19/month
Loud Leopard	1,000 connections	1 Mbit/s	e-mail, chat	\$99/month
Power Pug	10,000 connections	10 Mbit/s	e-mail, chat, 24/7 phone support	\$299/month

Additional links: Terms of service, Program policies, Privacy policy, Imprint. Powered by Amazon Web Services.

« Cute Cat » is free

The screenshot shows the CloudMQTT Console with the following information:

**Instance info**

Server	m21.cloudmqtt.com
User	[Redacted]
Password	[Redacted]
Port	18449
SSL Port	[Redacted]
Websockets Port (TLS only)	38449
Connection limit	10

**Manage Users**

- test [Delete]

Fields: username, password, Save

**ACLs**

Note: You have to set a acl rule for a custom user before it can access anything

- Use # for multi level wildcard ACL
- Use + for single level wildcard ACL

You need : Server, User, Password, Port, Websockets Port

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WiFi IoT Relay Board Setup Version 1  
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SSID	Password
<input type="text" value="belkin"/>	<input type="password" value="xxxxxxxxxxxxxxxx"/>

MQTT server	MQTT port
<input type="text" value="m21.cloudmqtt.com"/>	<input type="text" value="18449"/>

MQTT user	MQTT password
<input type="password" value="xxxxxxxxxx"/>	<input type="password" value="xxxxxxxxxxxxxxxx"/>

Name relay 1	Name relay 2
<input type="text" value="Table lamp left"/>	<input type="text" value="Table lamp right"/>

Name room	Prefix
<input type="text" value="Living room"/>	<input type="text" value="/IoTmanager"/>

Software Update

Erase EEPROM (deletes configuration!!!)