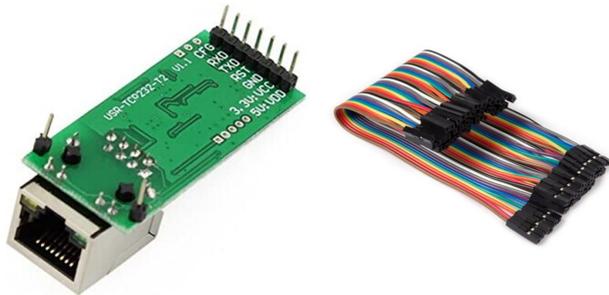


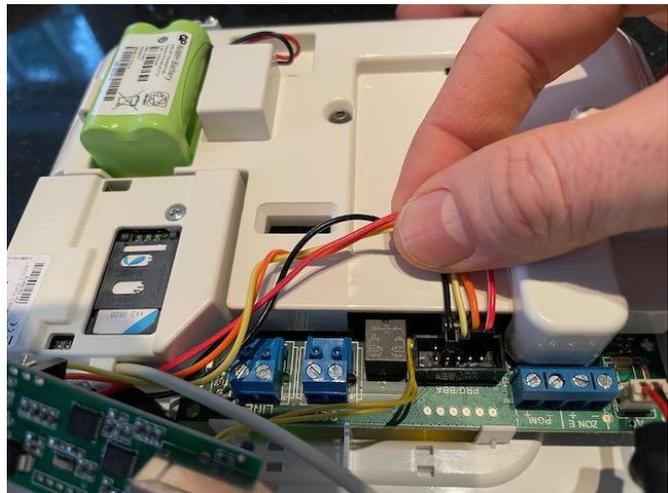
Guide for connecting Homey to PowerMaster 10 using a USB-TCP232-T2

Purchase the USB TCP232 T2, and female to female colour-coded jumper wires, both available on Amazon or Ebay.



Connect the wires as follows

(the choice of colours are my own)

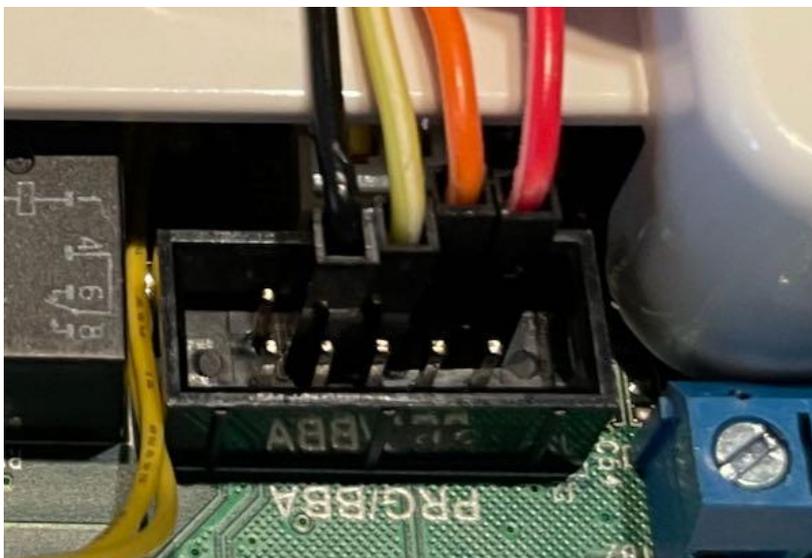
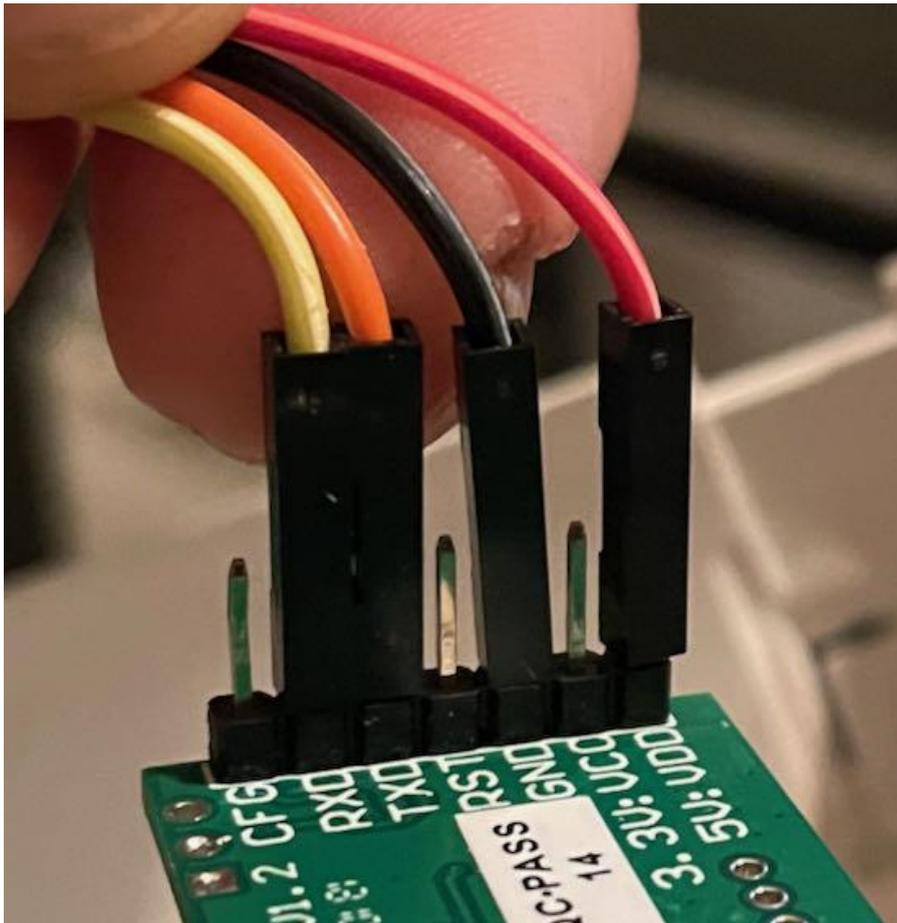


This connects the TX->Rx and Rx->Tx as well as providing the 5v current and ground needed to power the new unit. If the network cable is connected to the router and the powermaster is powered on, the diodes on the network socket should light up.

This is the same pinout as described for the PowerMax, but I have not been able to confirm this myself.

<https://www.domoticaforum.eu/viewtopic.php?f=68&t=7152>

Here are closeups of the pin-outs:



Top row: Empty | Ground | Tx | Rx | 5V
T2-unit Tx is connected to Powermaster Rx
T2-unit Rx is connected to Powermaster Tx

Pinout for powermax

I do not have access to a powermax, but i have gleaned the following instruction from this link

<https://forum.athom.com/discussion/1264/app-visonic-powermax-app-1-1-1/p4>

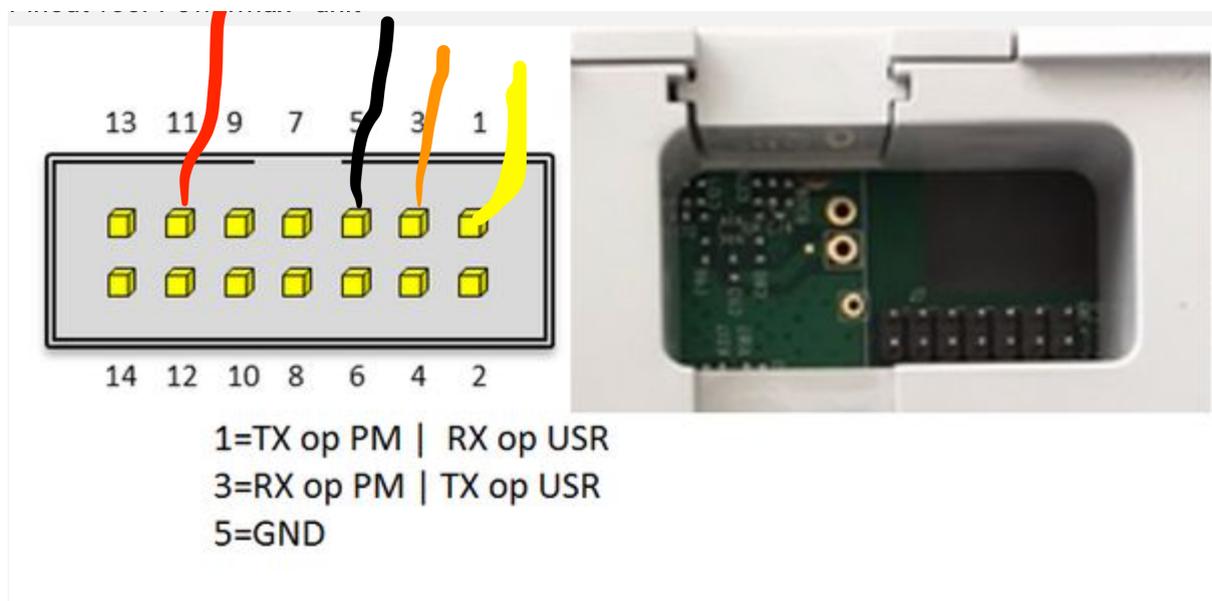
Pin NR:

11 = 5v

5 = ground

3 = Rx (connects to Tx on T2)

1 = Tx (connects to Rx on T2)

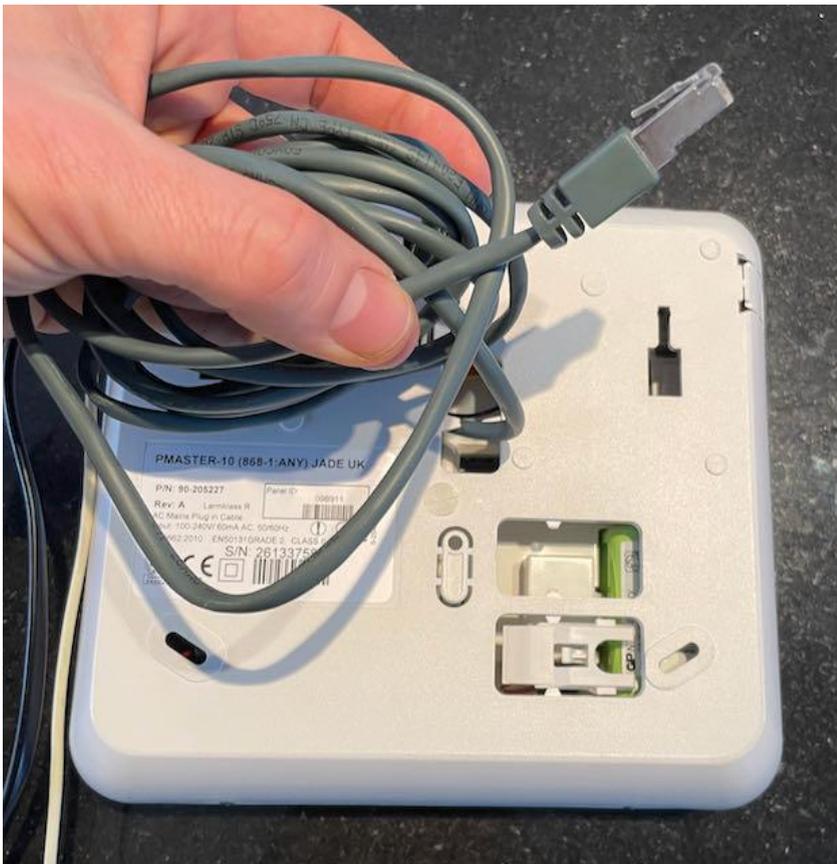


Placing the unit inside the Powermaster

Connect a network cable and run it out through one of the holes in the back of the unit. Be very careful how you run the cables and how you place the unit, and then close the case slowly. There is enough room at the bottom of the case to fit the USR-TCP232-T2



You should now have a network cable ready to connect to your router on the network where your Homey is connected.



Adjusting the setting of the USR-TCP232-T2

The unit has a built in server that can be reached by a web interface. In the factory default setting the unit has the default IP address 192.168.0.7 and tries to connect to ip-address 192.168.0.1

There is an extensive documentation available, but it is quite cumbersome to read.

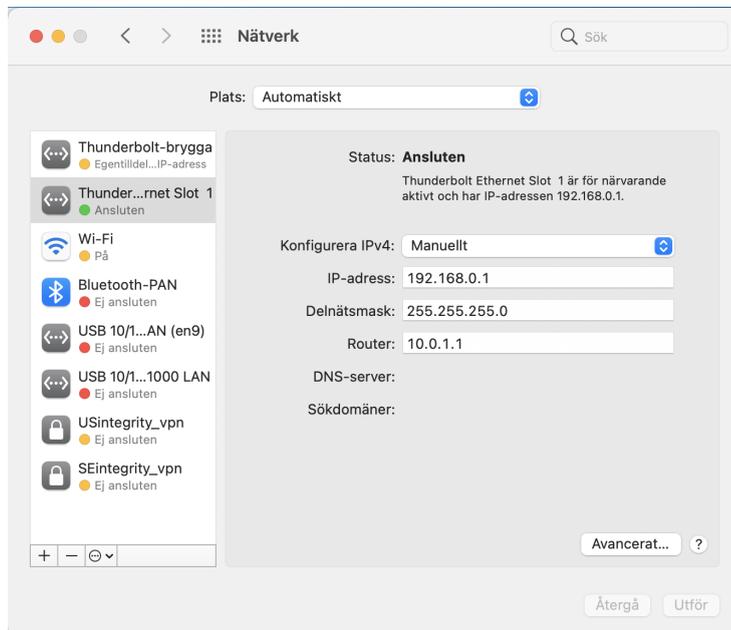
<https://stupin.su/files/USR-TCP232-T2-User-Manual-V1.0.pdf>

- First see to it that the unit is connected to the powermaster/powermax so it receives power.
- Connect an ethernet cable directly between you computers local ethernetport, and the unit, bypassing your router. The green diodes on the unit should light up and start blinking.



Network settings on your computer during setup

- So go into your network settings,
- Disable wifi,
- In the settings of you ethernet port change “Configure IPv4 from DHCP to Manually allocate IP-number, and set it to 192.168.0.1 ie your computer sets the local ip itself instead of getting it allocated from your router which is usually the case.



Connect to the unit in a webbrowser

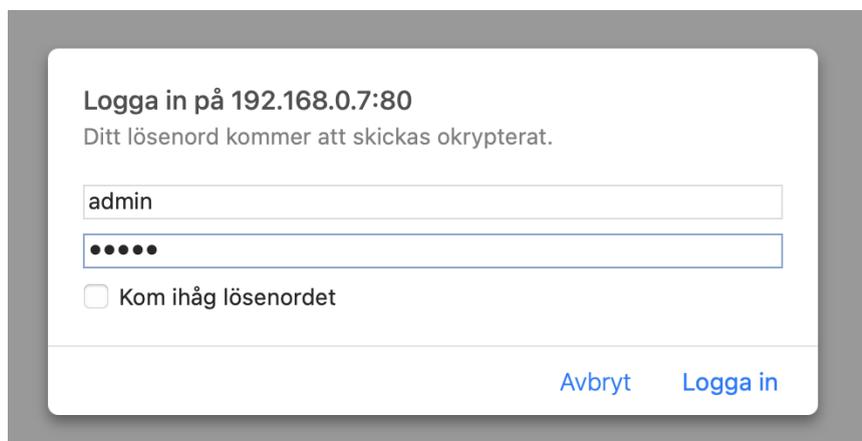
Go into a webbrowser and enter the address 192.168.0.7

This loginscreen should appear,

username: admin

password: admin

(on the version I purchased, check your documentation if it doesn't work)



Current Status Tab

Firmware Version: V4017 中文



USR
-IOT Experts-

Be Honest, Do Best!

| Current Status | parameter | Help |
|-----------------|---|---|
| Local IP Config | Module Name: USR-TCP232-T2 | <ul style="list-style-type: none">• Current IP Address: default IP of module• Remote IP/TX/RX: IP of server or device connecting with module;reset for disconnect• TX Count/RX Count: a total of data volume that servers or devices communicate with module;reset for power off |
| Serial Port | Current IP Address: 192.168.0.7 | |
| Expand Function | MAC Address: 9c-a5-25-aa-e1-14 | |
| Misc Config | Remote IP/TX/RX-1 : 0.0.0.0 / 0 byte / 0 byte | |
| Reboot | -2 : 0.0.0.0/ 0 byte / 0 byte | |
| | -3 : 0.0.0.0/ 0 byte / 0 byte | |
| | -4 : 0.0.0.0/ 0 byte / 0 byte | |
| | -5 : 0.0.0.0/ 0 byte / 0 byte | |
| | TX Count/RX Count: 0/ 0 bytes | |

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Write down och copy the MAC-address of the unit.

Local IP Config tab

The screenshot displays the USR web interface for configuring the local IP. The interface is in Chinese, with the slogan "Be Honest, Do Best!" and the USR logo. The "Local IP Config" tab is selected in the left navigation menu. The main configuration area is titled "parameter" and contains the following fields:

| parameter | value |
|-------------|----------------------|
| IP type: | Static IP |
| Static IP: | 192 . 168 . 0 . 7 |
| Submask: | 255 . 255 . 255 . 0 |
| Gateway: | 192 . 168 . 0 . 1 |
| DNS Server: | 208 . 67 . 222 . 222 |

Below the configuration fields are "Save" and "Cancel" buttons. The right sidebar contains a "Help" section with the following information:

- IP type:** StaticIP or DHCP
- StaticIP:** Module's static ip
- Submask:** usually 255.255.255.0
- Gateway:** Usually router's ip address
- DNS IP:** DNS gateway or Router's IP

The footer of the interface includes the copyright notice: "Copyright © Jinan USR IOT Technology Limited. All Rights Reserved" and the website address: "website: www.usriot.com".

- make sure that the "Static ip" is chosen. 192.168.0.7 is a good suggestion
- You may wish to use another ip-number if this is more convenient for you.
- If you have an apple router this uses the 10.0.X.X series instead, in this case choose a suitable number in this series.
- Take note of what IP you choose, as this will be required later on.

Serial Port-tab

The screenshot shows the configuration interface for a USR IOT device. At the top, it displays 'Firmware Version: V4017' and a language selector '中文'. The USR logo and slogan 'Be Honest, Do Best!' are also present. A sidebar on the left contains navigation options: 'Current Status', 'Local IP Config', 'Serial Port' (highlighted), 'Expand Function', 'Misc Config', and 'Reboot'. The main area is titled 'parameter' and contains the following settings:

- Baud Rate: 9600 bps
- Data Size: 8 bit
- Parity: None
- Stop Bits: 1 bit
- Local Port Number: 70 (0~65535)
- Remote Port Number: 8234 (1~65535)
- Work Mode: TCP Server
- Remote Server Addr: 192.168.0.201 [192.168.0.201]
- RESET:
- LINK:
- INDEX:
- Similar RFC2217:

At the bottom of the settings area are 'Save' and 'Cancel' buttons. A 'Help' sidebar on the right provides additional information:

- HTTPD URL:** Module add GET/POST and HTTP/1.1 in URL automatically according to user's setting.
- HTTPD Packet Header:** Module add HOST automatically according to user's setting. Add "Content Length" automatically in POST mode.

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Enter the settings:

Baud Rate: 9600

Data Size: 8

Parity: None

Stop Bits: 1

Local Port Number: 70 (you may choose another if this causes conflict for you)

Work Mode: TCP Server

It may be that different versions of the firmware of your powermaster has different Baudrate.

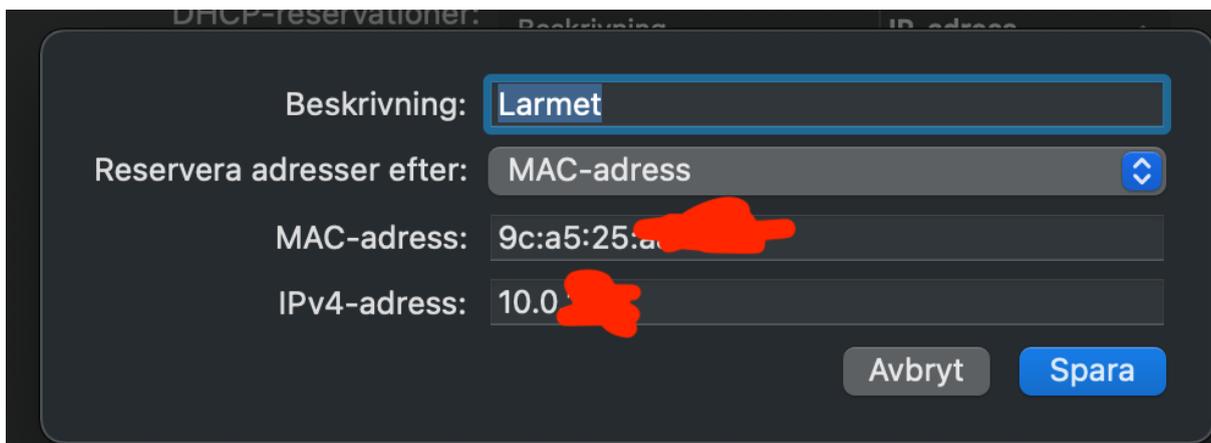
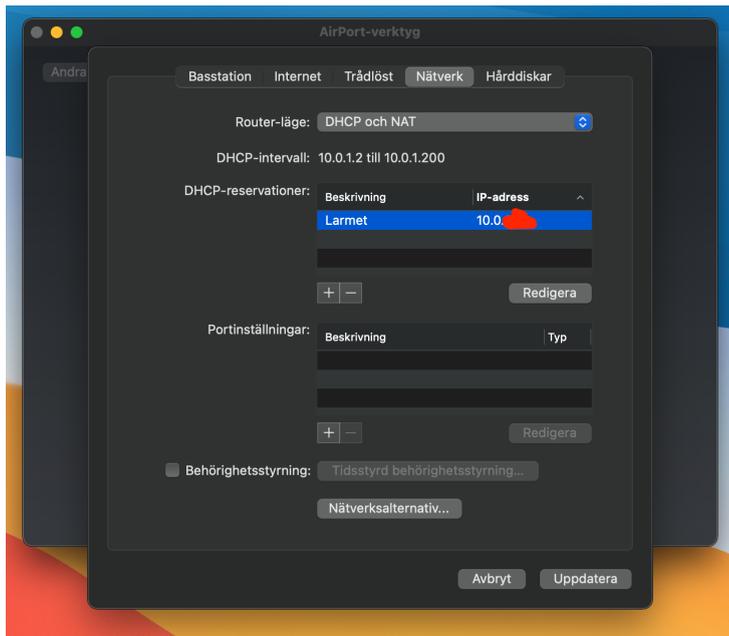
- 17.133 and below - baudrate is 9600
- 18.XXX and above - baudrate is 38400

Save all settings and change back your network settings on your computer.

Reserve IP-number in your router

Log into your router settings to dedicate a static ip-number (P-reservation) to the unit. This will look different for all brands of routers, in my case I use an Apple Airport. In this example I have created a reservation of the IP-number that I entered in the unit. For most routers 192.168.0.7 is suitable, but as I have an apple I use 10.0.something.something,

In other words, if a unit is connected to the network with the specific MAC-address, it will always be allocated the same IP-number



- You can now connect the ethernet cable from your powermaster/powermax to your home router. I did not have to make any specific settings in my Powermaster10, but you may have to activate PowerLink in the settings.

Connecting to Homey

Download the PowerMax Homey app.

<https://homey.app/sv-se/app/com.visonic.powermax/Visonic-PowerMax/>

For instructions how to connect the Powermax to Homey I refer to NLRBs instructions:

<https://github.com/nlrb/com.visonic.powermax>

here's a current screenshot.

The information you need to enter is the IP-number you reserved, and the serial port you chose in in the USR TCP232 T2 settings.

Panel device

First create an Alarm Panel device. You can add multiple panels if needed.

Pairing

Specify on which IP address and port the serial connection to the Visonic PowerMax can be made. It is also possible to select whether the panel is a PowerMax or PowerMaster model. Normally leave this on 'auto detect' and the app will determine the model itself. To start the pairing, press the 'Search' button.

As soon as communication with a PowerMax panel has been established, the pairing will move to the second screen. In the second step the panel will need to be brought into Powerlink mode. This enables the application to retrieve all information from the panel, like zone names, pin codes etc.

Please wait until all information is downloaded. Once that is completed, click the 'Add panel' button to add the panel device to Homey.

After following these instructions all units were auto-enrolled. Note that powermaster cannot read the motion detectors when the alarm is deactivated.