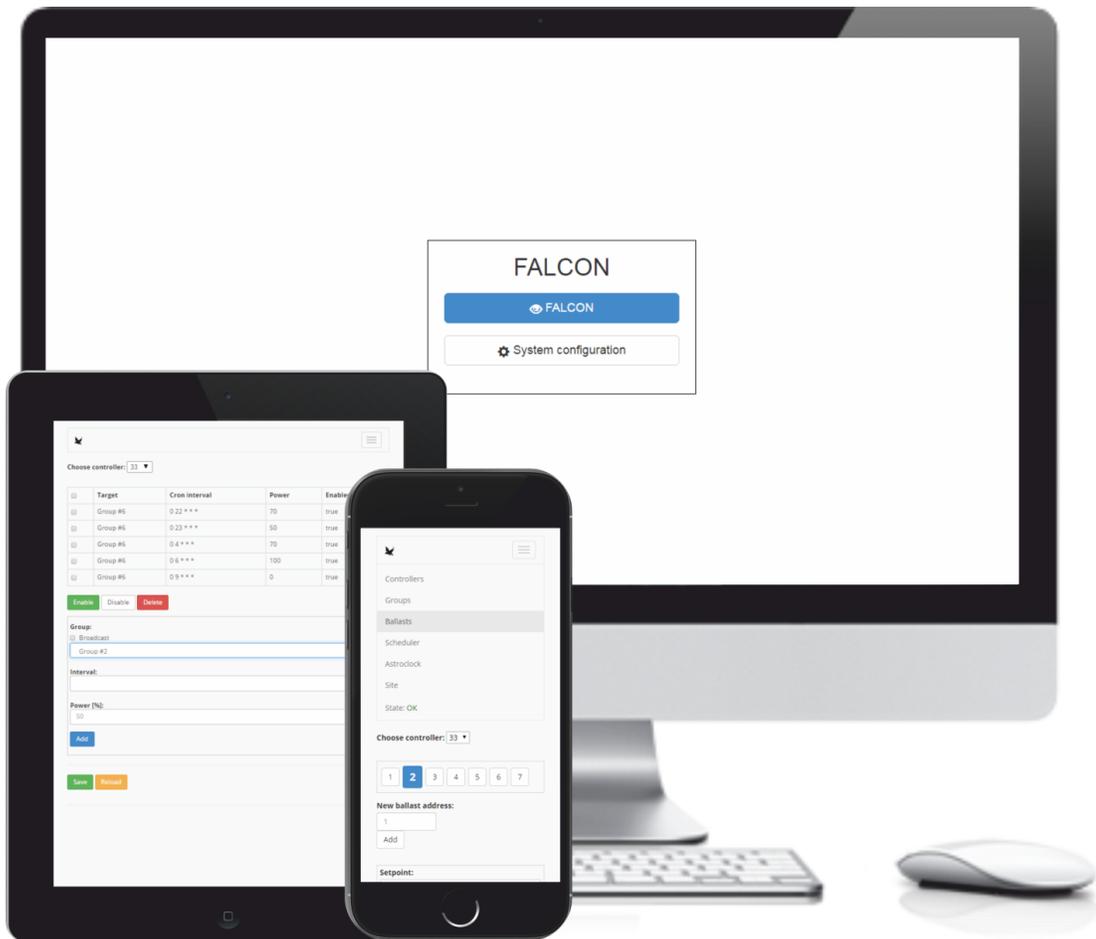


LUMiMASTER WiFi Setup



WiFi Adapter

LUMiMASTER SLC-NOM (version 2018) has built-in a USB port, which can be used to attach WiFi adapter and thus use WiFi to connect to LUMiMASTER (by creating a dedicated WiFi hotspot¹).

There are many USB WiFi adapters on the market, not all of them are equal in capabilities. We have tested and recommend the ones with Ralink chips, for example this one:



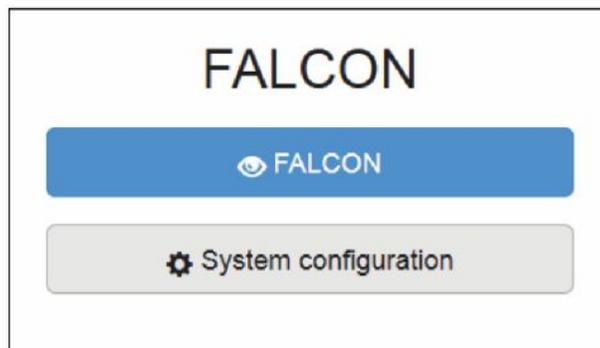
<https://www.datart.sk/wifi-adapter-zircon-wa-150-s-antenu-cierny.html?lang=en>

Also, please make sure you have up-to-date firmware in order to have the latest security patches.

WiFi Setup

1. Connect

Connect your notebook using Ethernet cable to LUMiMASTER, make sure the notebook network settings are compatible with LUMiMASTER network setup (by default it is on address 192.168.0.254), log in and go to System configuration.



¹ Note, that this does not connect your LUMiMASTER to internet. It only creates local WiFi hotspot, that allows devices connected to this hotspot to open LUMiMASTER configuration or webui.

2. Create Access Point

RTUAdmin

System Network **Wifi** DHCP server Modem VPN User management E-Mail DDNS Firewall HTTP server Tools ▾

Journal OpenDAF Maintenance

System-wide settings

Regulatory domain: SK

Enable wifi on boot: Yes

Access point on wlan0 Remove

Enabled: Yes

Interface: wlan0

Channel: 3

SSID: falcon Hidden

Operation mode: g

Maximum stations: 10

Authentication: wpa2

Passphrase: SomeSafePassPhrase

Add station Add access point Save Reload

In the Tab WiFi make sure the "Enable WiFi on boot" is selected. Fill in the details of your access point, especially the SSID (this is how the WiFi network will be named) and Passphrase. We do recommend using wpa2 Authentication method and non-trivial passphrase.

3. Set Static IP for wlan0

The screenshot shows the RTUAdmin web interface. At the top, there is a navigation menu with 'Network' selected. Below the menu, the 'Network' section is active, showing two network interfaces: 'NIC eth0' and 'NIC wlan0'. The 'NIC wlan0' interface is currently selected and its configuration is being edited. The 'Status' section shows the interface is 'DOWN'. The 'Configuration' section has 'Enabled' checked and 'DHCP' set to 'NO'. Under 'Static addresses:', the IP address '192.168.50.1/24' is entered in a text box. Below this, there are empty text boxes for 'Default gateways:' and 'DNS servers:', each with an 'Add' button. At the bottom of the configuration area, there are three buttons: 'Save' (green), 'Revert' (orange), and 'OK' (grey).

Wlan0 is our new wireless interface. To keep things simple, we want it to have static IP address. Note, that this must not collide with the network on our eth0 interface.

In our example above, the LUMiMASTER's IP address on the wifi will be 192.168.50.1. DHCP must be OFF, as we are using static IP address on wifi interface.

4. Setting up DHCP for clients

For all the client devices that will connect to our LUMiMASTER wifi hotspot, we will automatically provide network configuration using DHCP server. This will allow easy connection for our clients.

RTUAdmin

System Network Wifi **DHCP server** Modem VPN User management E-Mail DDNS Firewall HTTP server Tools ▾

Journal OpenDAF Maintenance

Enabled: Yes

Domain:

Interfaces:

IP ranges:

Add IP range:

First IP:

Last IP:

Lease time [h]:

In the tab DHCP server we now configure range of IP addresses within the network, that we had set up in previous step.

In the picture we have defined the range 192.168.50.100 - 192.168.50.200.

That's it. Now your clients will be able to connect to wifi hotspot "Falcon" and then access LUMiMASTER from the browser on <http://192.168.50.1>.