4.1 Device configuration and update

Application Manual

www.pinetek-networks.com

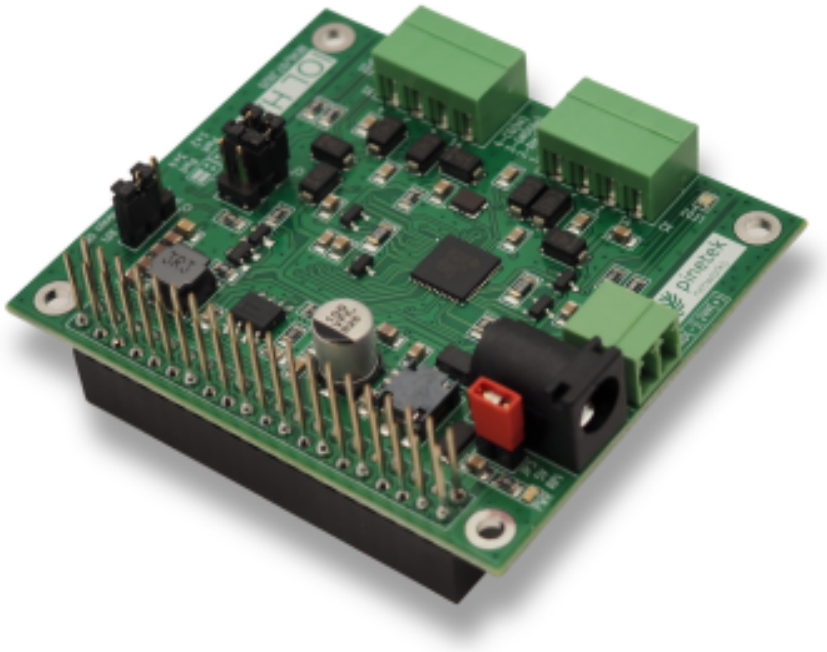


Table of Contents

4.1 Device configuration and update 5
Status 5
Network settings 5
Node-RED 6
Device update 6
Store/restore config 7

4.1 Device configuration and update

This section covers the “Device” page of the web interface. The web interface can be reached:

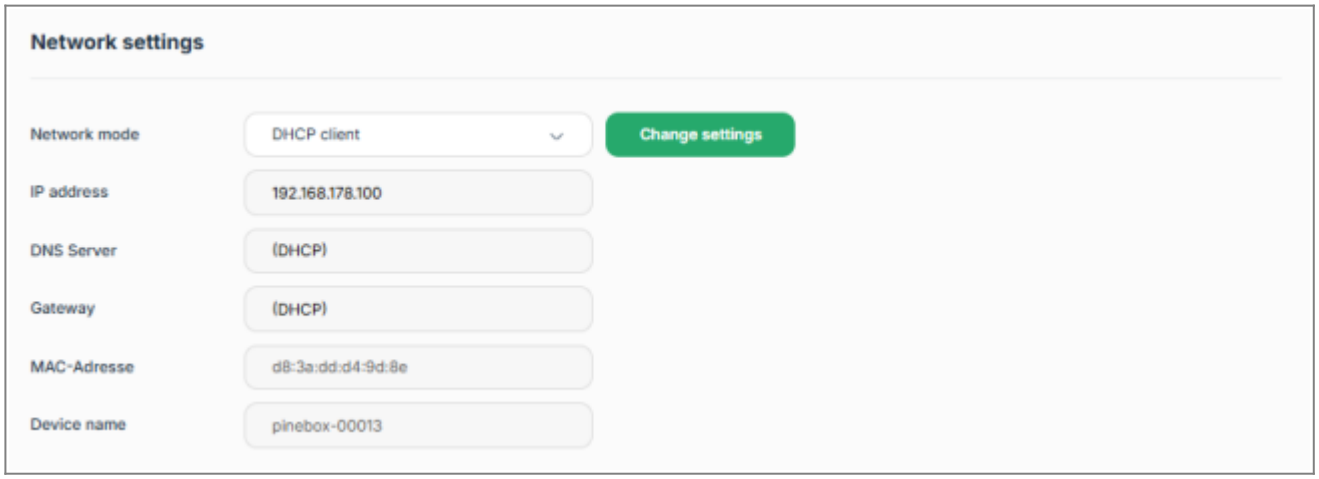
- with the IP-Address
- with the devicename in the format pinebox-XXXXX. For this, the name must be known to the network’s name server, which is usually the case if the IP was assigned by DHCP

Status

This section holds the following information:

- Device status: Operational or error state
- Software version: The installed device software, can be updated (see “Update” section)
- Hardware version: The hardware version of the Pinebox
- Device serial: Serial number of the Pinebox.
- Log: “Show log” will open another tab with log information. In case of issues with the Pinebox, the Pinetek Networks support may ask to provide information from this output

Network settings



The network setings allow you to set the Ethernet IP-Address. There are two options:

1. **Network mode “DHCP client”**
   This is the default setting (factory default). In the network, a DHCP server needs to be present

to assign an IP address. The address can then be looked up in the DHCP server's client list. Typically, the DHCP server also acts as DNS, so the web interface also can be accessed with the device name.
In DHCP client mode, the fields for IP address, DNS server and gateway are read-only as the data is assigend from the server.
Fallback mode for DHCP: if no DHCP server can be detected by the Pinebox, the IP address falls back to the static fallback IP that is marked on the Pinebox's label on the backside of the device. As the DHCP mode is factory default, the static fallback IP can be set with the reset button.

2. **Network mode "Manual IP address"**
   In this setting, the IPs for the device ("IP address") and the network's DNS Server and gateway need to be set manually.

If settings are change, these are applied with the "Change settings" button.

If IP settings are changed and are not matching with the actual network, this can lead to a situation, where IP traffic can be disturbed in the network or the device is left unreachable. In these cases, a factory reset of the network over the hardware reset button (see 3.1 Power and Network Connections, Reset Button) might be necessary to re-establish communications.

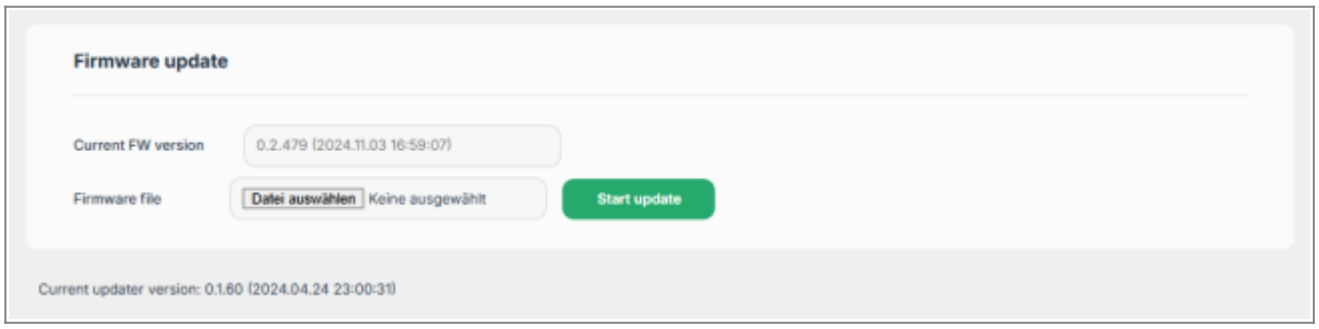
Node-RED

This section controls the Node-RED service. Node-RED can be manually started and stopped ("Start Node-RED" / "Stop Node-RED"). Please not that starting will take some time to complete. If Node-RED is stopped, the Node-RED Flows and Dashboard cannot be accessed, and the configured flows are not executed.

BY default, Node-RED is configured to start as a service on device start. You can disable this be removing the service. In case you want to execute the Node-RED flows, Node-RED requires a manual start (over the web interface or via JSON interface).

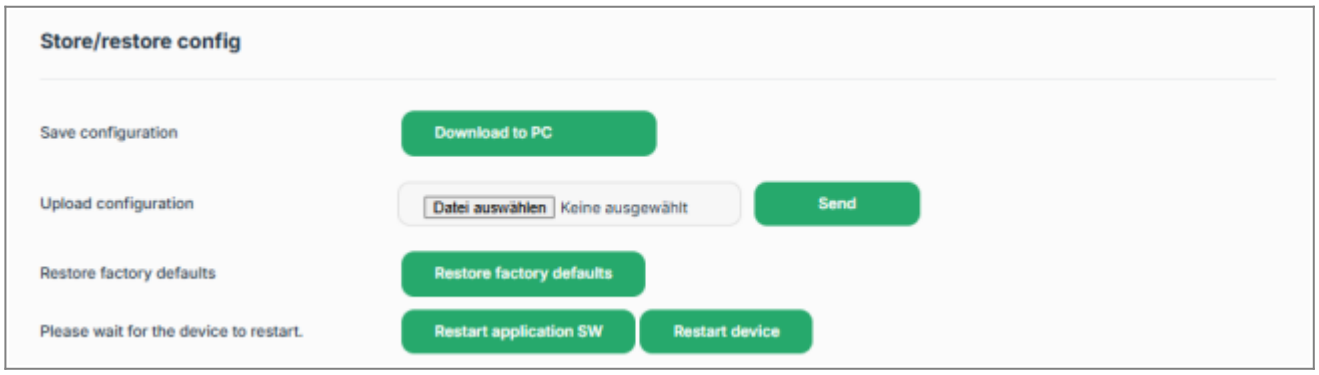
Device update

Clicking the link will lead to the device update page (under a different port than the rest of the web interface):



The latest firmware is provided here: download.pinetek-networks.com/pinebox/firmware/. The downloaded file needs to be un-zipped, the device update expects a file with .pfw (Pinebox Firmware) file extension.

Store/restore config



In this section, the user data can be stored and restored and the device and application can be re-started.

- Save/upload configuration: This saves and restores the user data (port configuration and IODDs, Node-RED configuration and nodes). The network configuration (see above) is not stored and restored.
- Restore factory defaults: This erases all user data (port configuration and IODDs, Node-RED configuration and nodes). The network configuration is also set to default (DHCP).
- Restart application SW: This restarts the application software of the Pinebox, the SDCI ports driver remains untouched by this. Can be used if an application error persists.
- Restart device: This does a hard restart of the complete Pinebox. Can be used if an error persists in the device at runtime.