

4.1 Device configuration and update

Application Manual

www.pinetek-networks.com

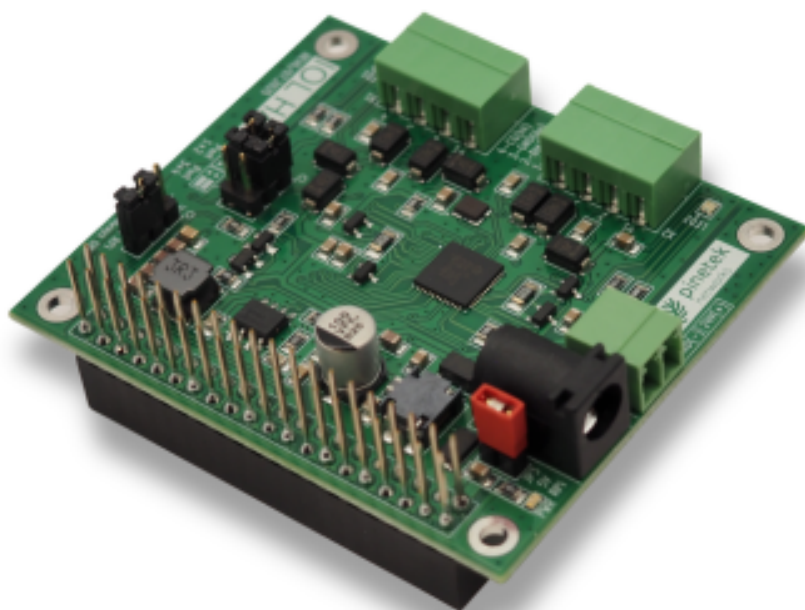


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4.1 Device configuration and update

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



The screenshot shows the 'Status' page of the web interface. It features a title 'Status' at the top left. Below it, there are four rows of information, each with a label on the left and a value in a rounded rectangular box on the right:

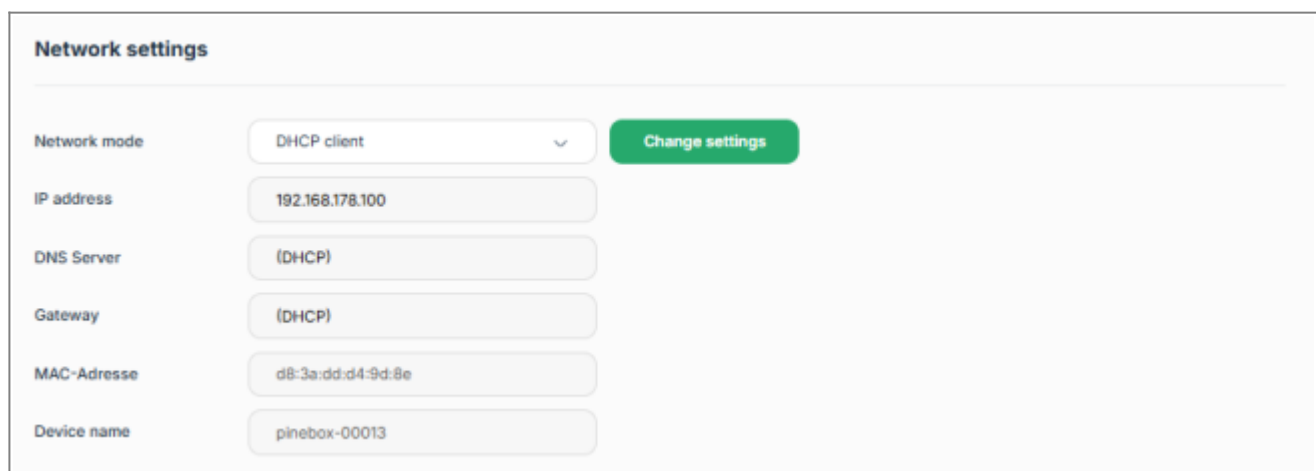
Status	
Device Status	Operational
Software version	0.2.479 (2024.11.03 16:59:07)
Hardware version	1.0
Device serial	SN00013

At the bottom left, there is a link labeled 'Show log'.

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 screenshot shows the 'Network settings' page of the web interface. It features a title 'Network settings' at the top left. Below it, there are six rows of configuration fields, each with a label on the left and a value in a rounded rectangular box on the right. A green 'Change settings' button is located to the right of the 'Network mode' field.

Network settings	
Network mode	DHCP client
IP address	192.168.178.100
DNS Server	(DHCP)
Gateway	(DHCP)
MAC-Adresse	d8-3a-dd:d4-9d-8e
Device name	pinebox-00013

The network settings 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 assigned 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

Node-RED

Node-RED status	Node-RED is running	Start Node-RED	Stop Node-RED
Node-RED service	Node-RED service is started on device start	Enable service	Remove service

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.

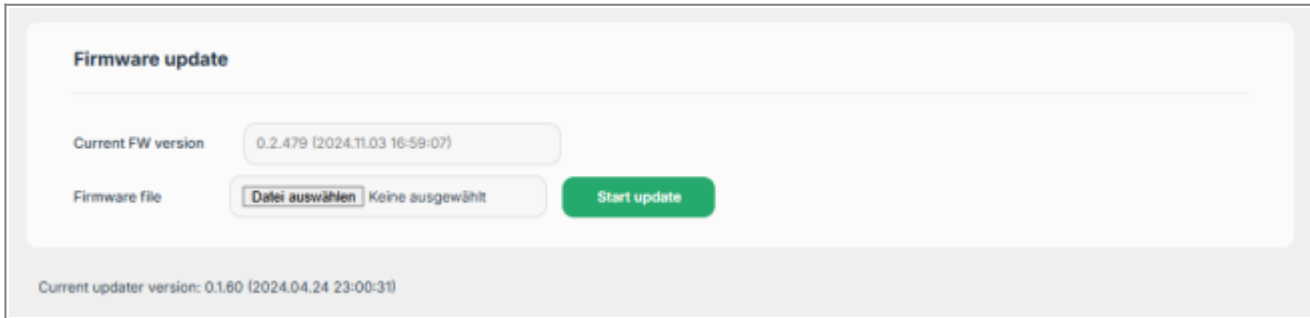
BY default, Node-RED is configured to start as a service on device start. You can disable this by removing the service. In case you want to execute the Node-RED flows, Node-RED requires a manual start (over the web interface or via JSON interface).

Device update

Device update

[Go to device update page](#)

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



Firmware update

Current FW version: 0.2.479 (2024.11.03 16:59:07)

Firmware file: Keine ausgewählt

Current updater version: 0.1.60 (2024.04.24 23:00:31)

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



Store/restore config

Save configuration:

Upload configuration: Keine ausgewählt

Restore factory defaults:

Please wait for the device to restart:

In this section, the user data can be stored and restored and the device and application can be restarted.

- **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.