antaira®

making connectivity simple...

Software Manual

Version 1.0

(March 2023)

AMY-5133-AC-PD

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Software Manual
Version 1.0 (March 2023)

The manual supports the following models:
- AMY-5133-AC-PD

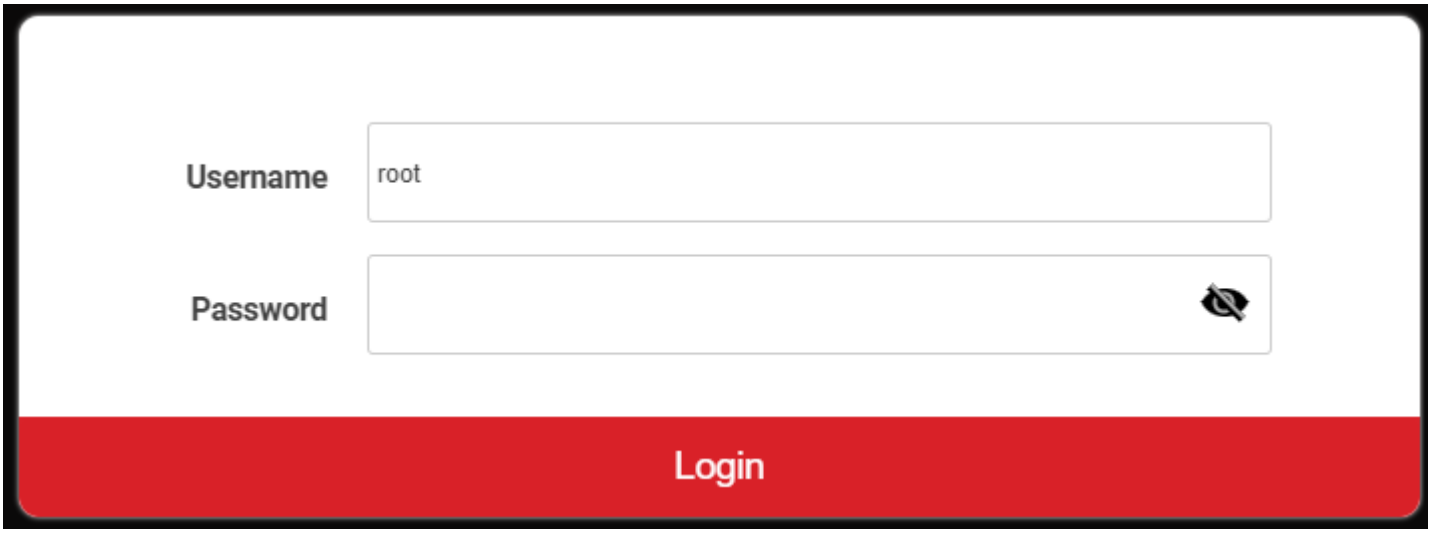
This manual supports the following firmware version:
- Firmware : ver 1.0.5

Please check our website (www.antaira.com) for any updated manual or contact us by e-mail (support@antaira.com).

1 Access with Web Browser

1.1 Web GUI Login

All of Antaira's industrial managed devices are embedded with HTML web GUI interfaces. They provide user-friendly management features through its design and allow users to manage the devices from anywhere on the network through a web browser.



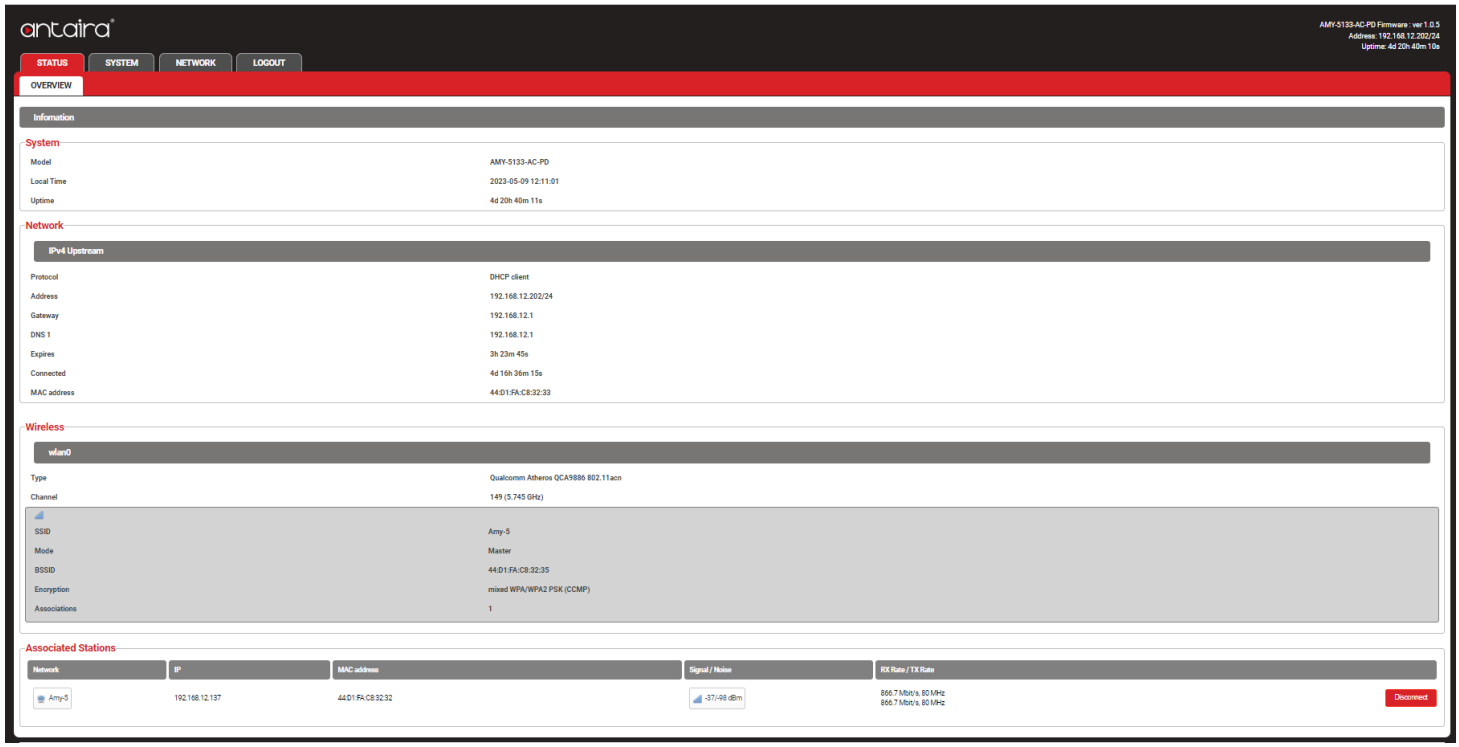
Step 1: To access the WEB GUI, open a web browser and type the following IP address: http://192.168.1.1

Step 2: The default WEB GUI login:
Username: root
Password: admin

2 Status page

2.1 Overview page

The Status Screen is the first screen you will see when accessing the router.



2.1.1 System

Model	Displays the model number
Local Time	Local time where the router is installed
Uptime	Displays how long the router has been up and running

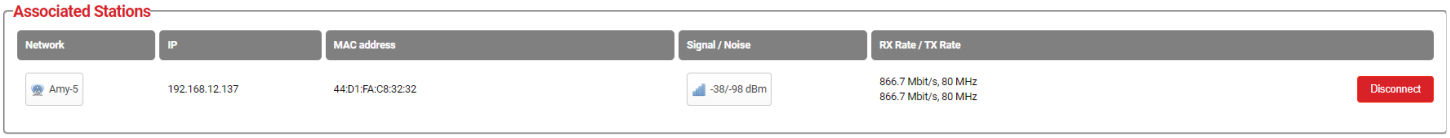
2.1.2 Network

Protocol	DHCP or static IP
Address	Current IP address/Mask
Gateway	IP address of the Gateway
DNS 1	IP address of the DNS
Expires	Expiration time of the DHCP address
Connected	How long has the device been connected on the Ethernet port
MAC address	Displays the MAC address of the Ethernet port

2.1.3 Wireless

Type	Displays the chipset for the wireless
Channel	Current channel being used
SSID	Service Set IDentifier
Mode	Master/Slave = Access point/Client
BSSID	Basic service set identifier
Encryption	Level and type of encryption being used on the wireless connection
Associations	Integer showing how many connections

2.1.4 Associated Stations



Network	SSID of connected unit
IP	IP address of connected unit
MAC Address	MAC address of connected unit
Signal/Noise	Current signal to noise ratio reading
RX Rate / TX Rate	Receive and Transmit speeds at the radio level

3 System page

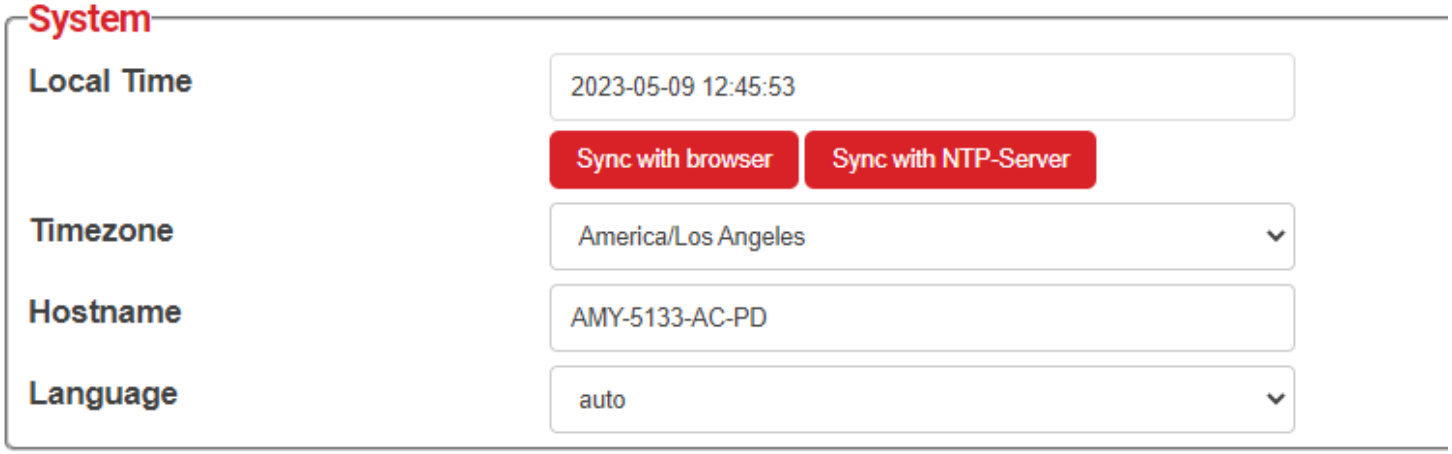
3.1 System sub page

3.1.1 Login Credentials

No limitations on the complexity of the password.

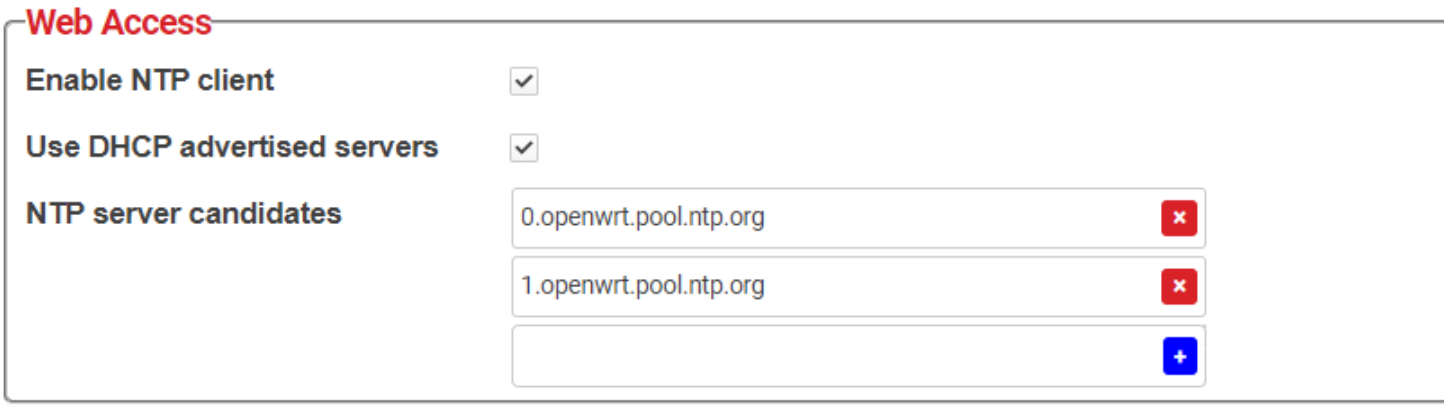
Password	Enter new password to change it
Confirmation	Confirm the new password

3.1.2 System



Local Time	The time set in the device
Timezone	Time zone for which the device is installed
Hostname	The hostname can be changed here
Language	Choice of language

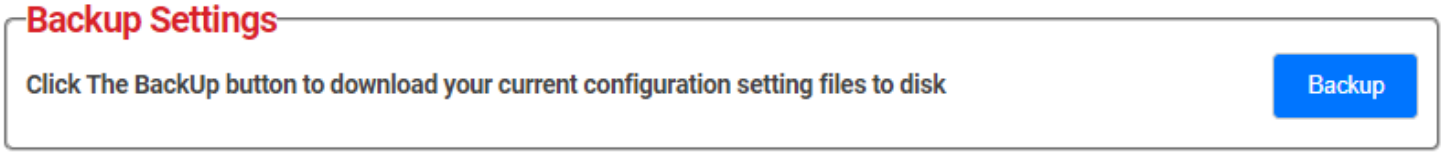
3.1.3 Web Access



Enable NTP client	Check to enable Network Time Protocol client
Use DHCP advertised servers	Check to enable DHCP advertised servers
NTP server candidates	List of Network Time Protocol servers to be used

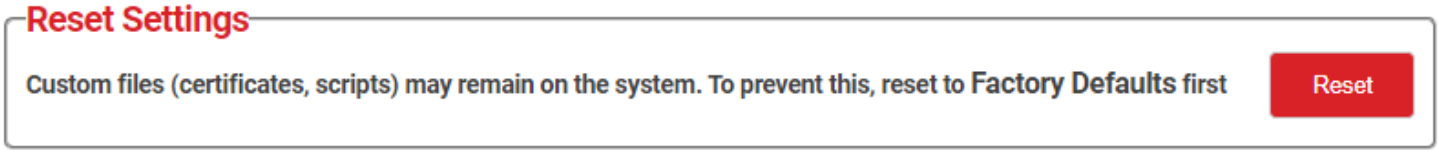
3.2 Backup

3.2.1 Backup Settings



Backup	Click to create a backup of the configuration.

3.2.2 Reset Settings

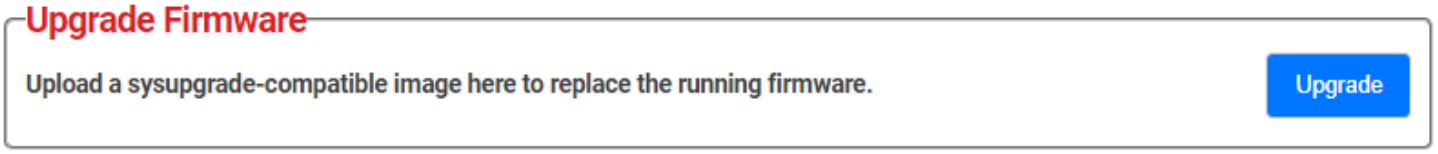


Reset	Click to reset settings

3.2.3 Restore Settings

Restore	Click to restore settings from a file

3.2.4 Upgrade Firmware



Upgrade	Click to update firmware

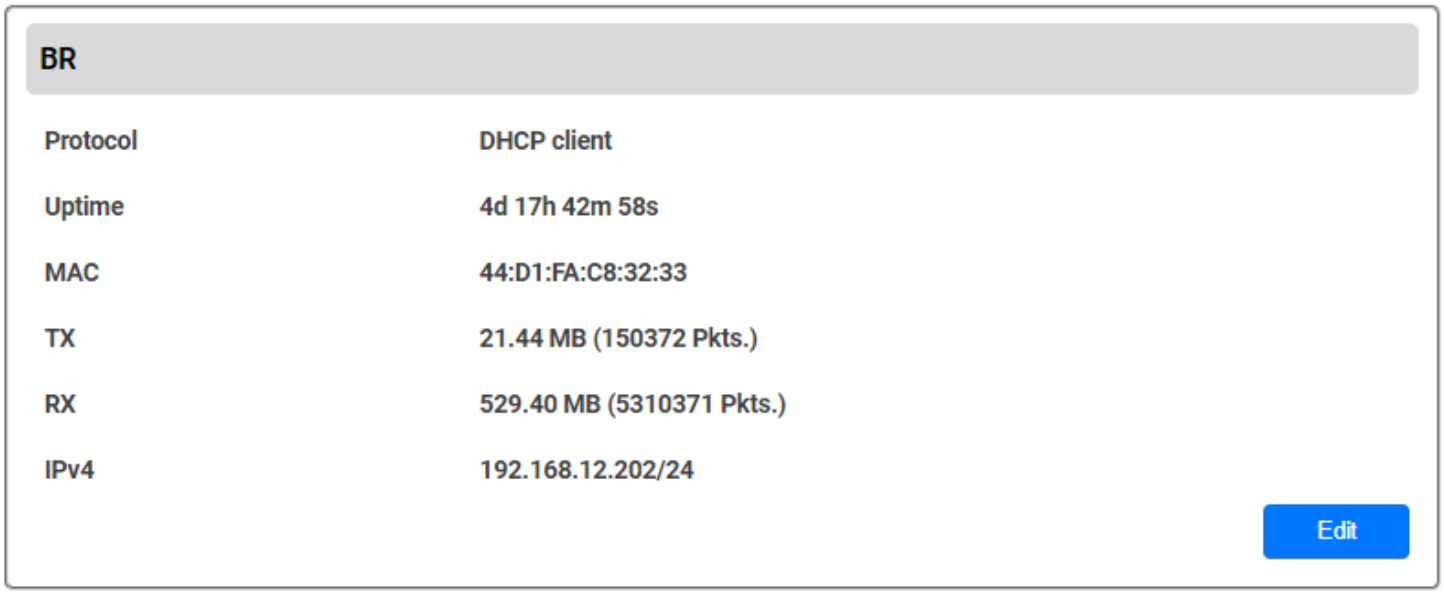
3.3 Reboot

3.3.1 Reboot Settings

Perform reboot	Click to reboot device

4 Network page

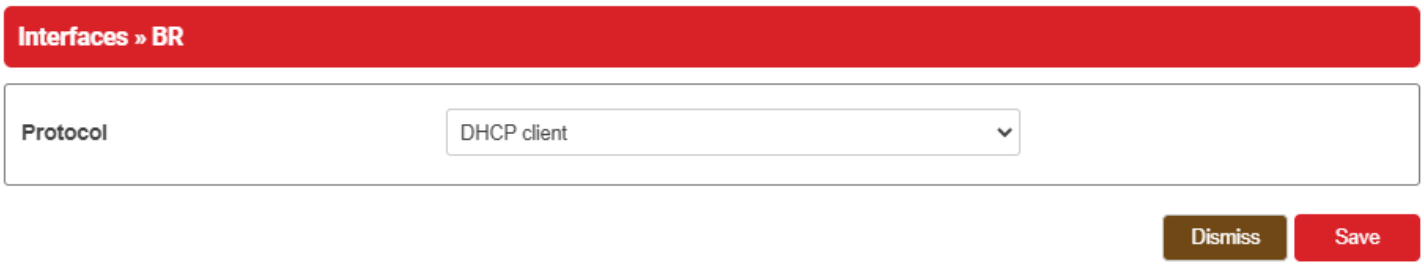
4.1 Interfaces



These are the settings for the Ethernet interface

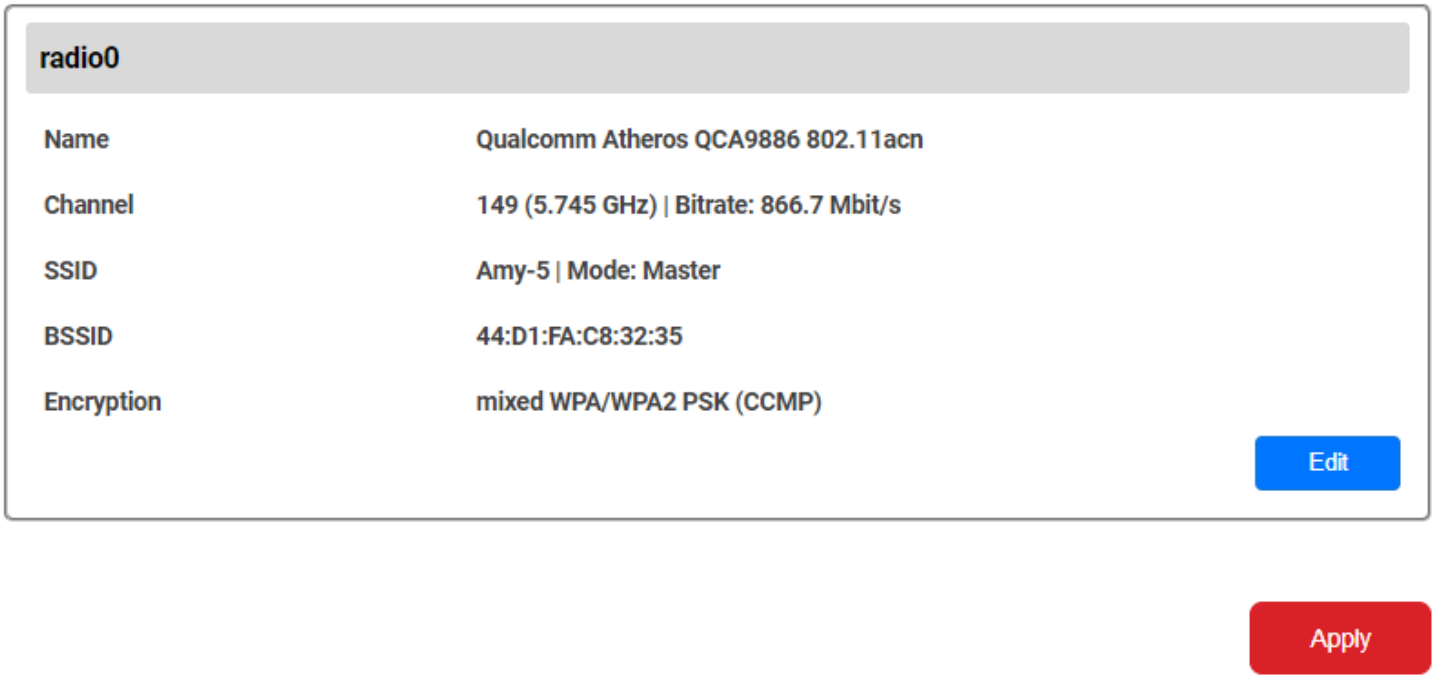
Protocol	DHCP or fixed
Uptime	How long the device has been up
MAC	MAC address of the Ethernet interface
TX	The amount of data transmitted
RX	The amount of data received
IPv4	IP address/mask
Edit	Click to edit settings
Apply	Apply any changes to the settings

4.1.1 Device Configuration



Protocol	DHCP or Static
IPv4 address	{appears only when Static is selected} Static IP address
IPv4 netmask	{appears only when Static is selected} Static Subnet Mask
IPv4 Gateway	{appears only when Static is selected} Static Gateway
IPv4 Broadcast	{appears only when Static is selected} Static broadcast IPv4 address
Dismiss	Click to exit without changes
Save	Save any changes to the settings

4.2 Wireless

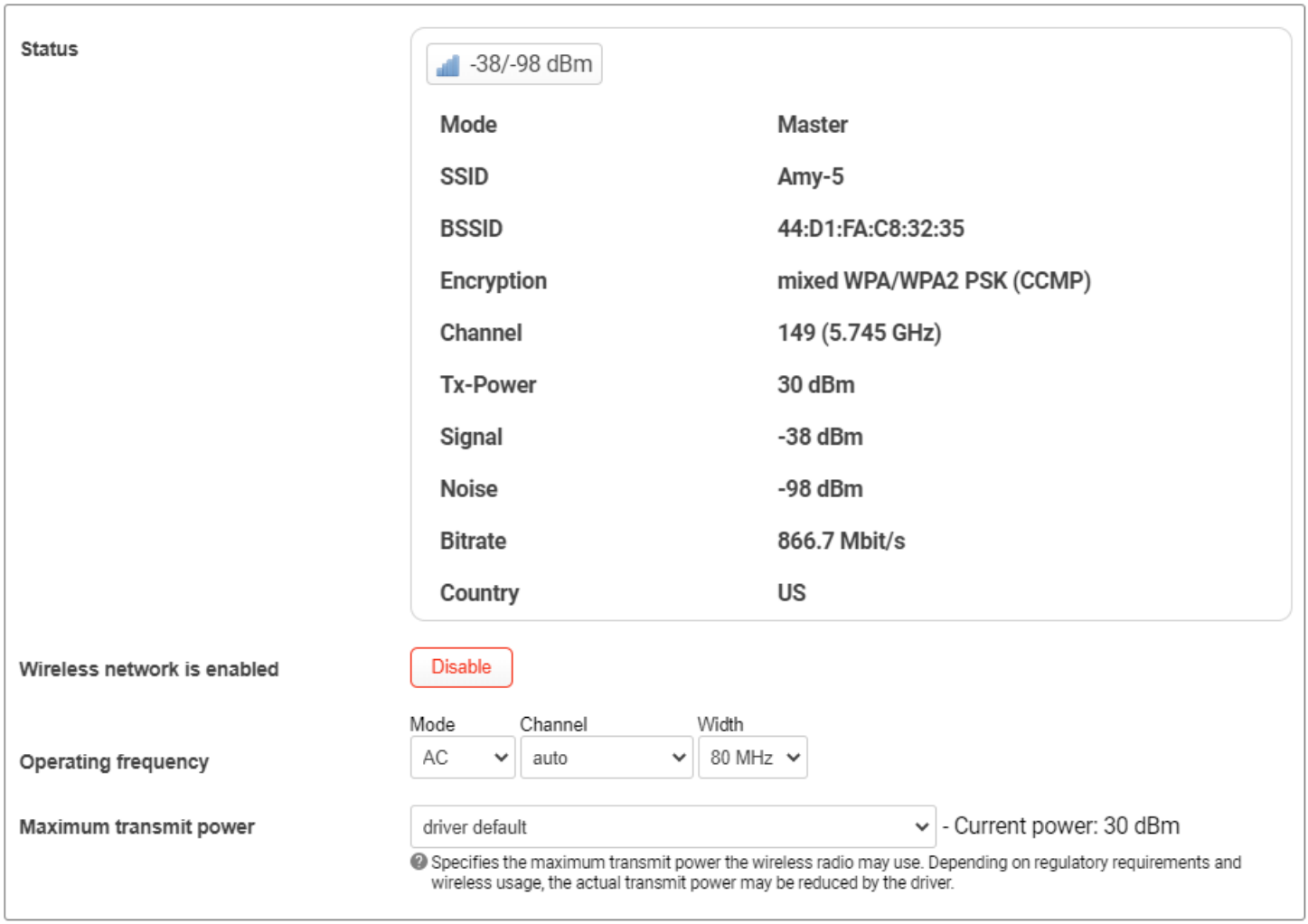


These are the settings for the Ethernet interface

Name	Displays the chipset for the wireless
Channel	Current channel being used and current bitrate
SSID	Service Set IDentifier
BSSID	Basic Service Set IDentifier
Encryption	Level and type of encryption being used on the wireless connection
Edit	Click to edit settings
Apply	Apply any changes to the settings

4.2.1 Device Configuration

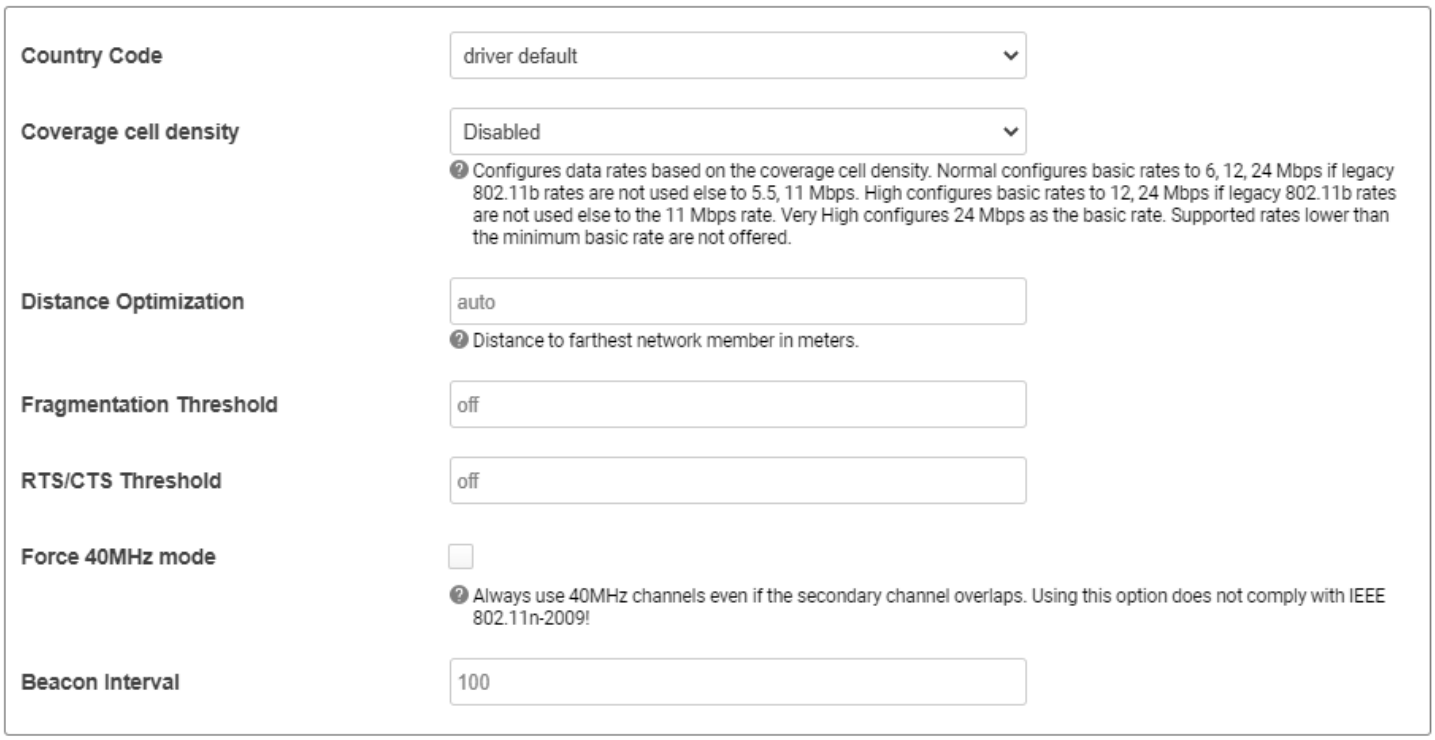
4.2.1.1



-38/-98 dBm	Signal to noise ratio
Mode	Master/Slave = Access point/client
SSID	Service Set IDentifier
BSSID	Basic service set identifier
Encryption	Level and type of encryption being used on the wireless connection
Channel	Current channel being used
Tx-Power	Level of transmit power
Signal	Strength of signal

Noise	Level of noise
Bitrate	Bitrate at the radio level
Country	County currently programmed for
Wireless Network is enabled/disabled	Disable/enable radio
Operating Frequency	
--Mode	Legacy, N or AC for downgrading for compatibility
--Channel	Auto or select a fixed channel
--Width	20, 40, 80 MHz - 80 required for max bandwidth
Maximum Transmit power	Can reduce transmit power for use when radios are close
-- Current power	Shows what is currently being used

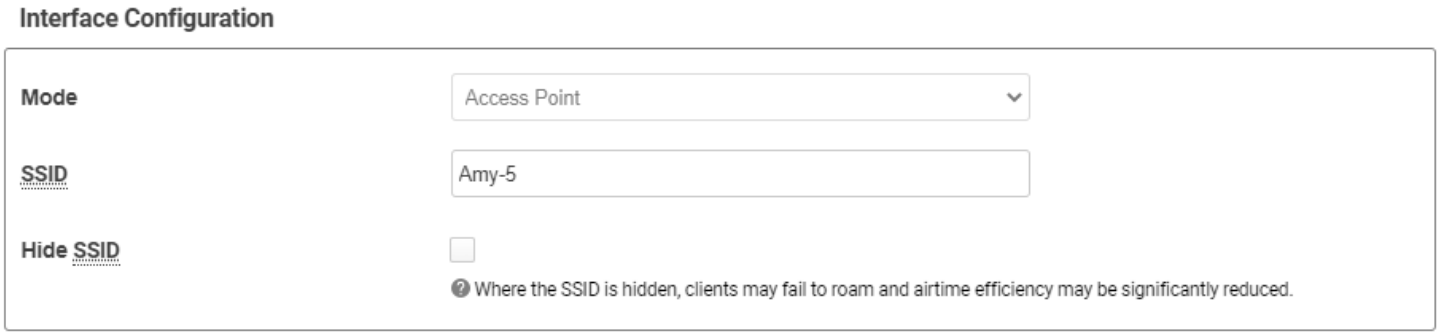
4.2.1.2



Country Code	Configures radio to be compliant in each region
Coverage Cell Density	Configures data rates based on the coverage cell density. Normal configures basic rates to 6, 12, 24 Mbps if legacy 802.11b rates are not

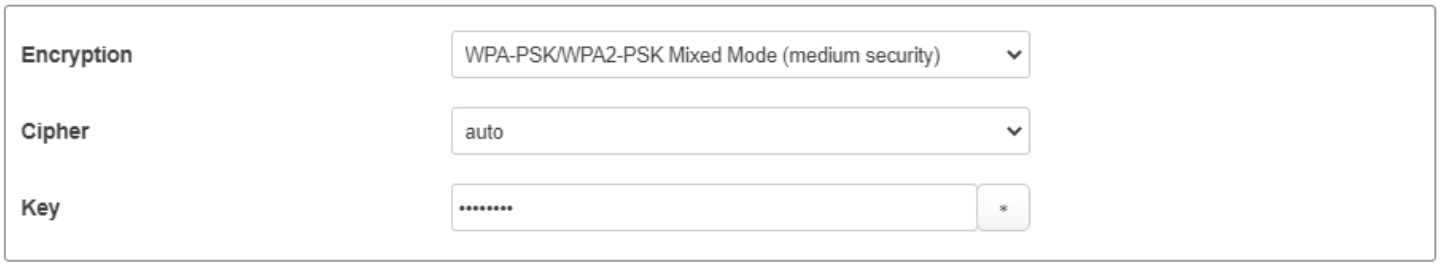
	used else to 5.5, 11 Mbps. High configures basic rates to 12, 24 Mbps if legacy 802.11b rates are not used else to the 11 Mbps rate. Very High configures 24 Mbps as the basic rate. Supported rates lower than the minimum basic rate are not offered.
Distance Optimization	Distance to farthest network member in meters.
Fragmentation Threshold	Basic service set identifier
TRS/CTS Threshold	Level and type of encryption being used on the wireless connection
Force 40MHz Mode	Forces wider channel even when other signals are around
Beacon Interval	Expecting a value between 15 and 65535

4.2.1.3



Mode	Access Point/Client - this is controlled by the switch located on the device
SSID	Service Set IDentifier
Hide SSID	Hide SSID for light security purposes

4.2.1.4



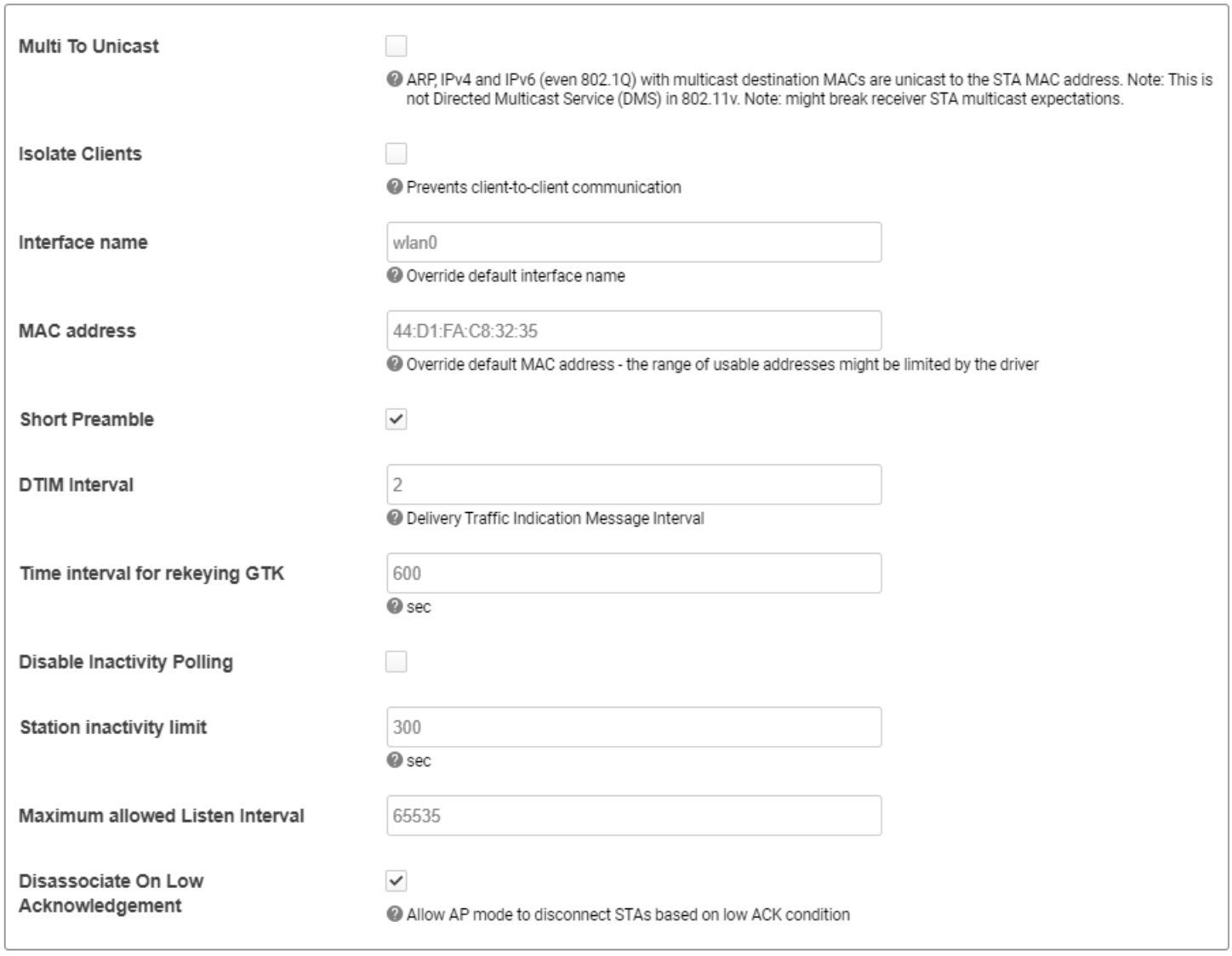
Encryption	Set different - more secure/less secure encryption
Cipher	Set Cipher type

Key	Set key for encryption

4.2.1.5

MAC Address Filter	Disable/allow list only/Allow all except list
MAC-LIst	{only appears when enabling filter}

4.2.1.6



Multi to Unicast	Multicast Streams Over WiFi with Unicast conversion (udpxy). If you wish to access multicast streams over WiFi, the bandwidth efficient way is to

	convert it to unicast so that high speed modulation can be used. The udpxy package enables this functionality.
Isolate Clients	Prevent clients from being able to communicate
Interface Name	Change interface name
MAC address	Change MAC address
Short Preamble	Enable short preamble
DTIM Interval	The DTIM interval can be adjusted to determine when the message is sent
Time interval for rekeying GTK	Shorter rekeying times are said to be more secure but selecting the best encryption protocol is more important
Disable Inactive Polling	The inactivity polling can be disabled to disconnect stations based on inactivity timeout. So that idle stations are more likely to be disconnected even if they are still in range of the AP.
Station inactivity limit	Station inactivity limit in seconds: If a station does not send anything in ap_max_inactivity seconds, an empty data frame is sent to it in order to verify whether it is still in range. If this frame is not ACKed, the station will be disassociated and then deauthenticated.
Maximum allowed listen interval	Maximum allowed listen interval (how many Beacon periods STAs are allowed to remain asleep).
Disassociate on Low Acknowledgement	Disassociate stations based on excessive transmission failures or other indications of connection loss. This depends on the driver capabilities and may not be available with all drivers.
Dismiss	Click to exit without changes
Save	Save any changes to the settings

5 Logout

Immediately logs off user