

i-CAN ■■■® Thunder AX 3600

Wi-Fi 6 Ultra Fast Home Gateway



SAFETY INFORMATION AND WARNINGS ON THE PRODUCT



Before any operation is performed, please read the operation instructions and precautions carefully in order to minimize the possibility of accidents.

When you use this product you shall always respect basic safety measures in order to reduce risk of fire, electric shock or injury, following below instructions.

Environmental conditions for product installation and use



The product shall be installed and configured in accordance with the user guide.
The product shall be used and installed indoor with a maximum ambient temperature of 40° C.
The product shall be installed in a place with a grade 2 of environmental pollution (a place without conducting polluting agents).
The product shall not be placed near any source of heat or direct sunlight.
The product shall be placed in a well-ventilated area in order to prevent overheating. Do not cover or block the air vents on the product. These are necessary for proper ventilation.
Do not use this product near water or in close proximity to bath tub, wash bowl, kitchen sink, or laundry basin, in a wet basement, or near a swimming pool.
The product shall not get in contact with water and moisture. Moving the product from a cold environment to a hot one may cause moisture on some internal parts of the device. Wait until the product is totally dry before turning it on. In case of fire, do not use water for fire-extinguishing.



The product shall not be used during a lightning storm. There is a remote risk of electric shock from lightning.

Interface classification: The external interfaces of the product are classified as:



Telephone (Line) or FXS: ES2 circuits not subject to overvoltages.
xDSL: ES-2 circuit subject to overvoltages. This means, that although the cables to be used for the normal connection in accordance with the installation procedures are subject to overvoltages, the safety standards are respected.
The other telecommunication ports (**LAN**, **USB Host**) and the **low voltage power supply port:** ES1 circuits.



External xDSL cables must be connected only to the xDSL port. If these cables were connected to other ports of the product not following the installation instructions, overvoltages can occur.
FXS analogue telephone ports are classified as ES2 circuits, meaning that there is no safety issue if installation instructions are respected. FXS ports shall never be connected to analogue telephone equipment placed outside the building where the product is installed.
Ethernet (LAN) and USB ports must be connected only to devices that support the same kind of interface, and the cable used must not leave the building where the product is installed.

Wireless LAN



The product is provided with a Wi-Fi interface based on DSSS (Direct Sequence Spread Spectrum) and OFDM (Orthogonal Frequency Division Modulation) radio technologies. The product complies with the IEEE 802.11b/g/n/ac/ax standards and is Wi-Fi Certified™ according to Wi-Fi Alliance.
The radio equipment transmits in the 2.4GHz and 5GHz frequency bands; the maximum radio-frequency power transmitted is lower than 100 mW (2.4GHz), 200mW (5.15GHz-5.35GHz) and 1000 mW (5.47GHz-5.725GHz).



In order to comply with human exposure to radiofrequency standards this product should be installed and operated with 20 cm (8 inches) minimum distance between the radiator and your body.

Restrictions for use



In all EU member states operation of 5150-5350 MHz is restricted to indoor use only.

USB



The equipment has to be connected to a standard USB device compliant with limited current circuit (as per EN 62368-1-1).

Power source



Use only the Class II power adapter provided with the product. The product should be operated only with power source of the same kind as indicated on the power adapter rating plate.
The power adapter provided is a limited power source as per EN 62368-1 Annex Q1 and it is compliant to national standards of the specific country where the product is installed. It is strictly forbidden to use different type of power source.
The plug-socket serves as the main disconnecting device. Be sure that the used power outlet is easily accessible and located as close to the user as possible.



In order to reduce the risk of fire or electric shock, do not overload the electrical outlet, power strip, or extension power cable.

Software



Please use only software release available onboard at first delivery or upon further updates by operator.
Other software releases do not guarantee compliance with essential requirements of RED Directive 2014/53/EU and may not allow the radio equipment to operate as intended.

Cleaning instructions



Unplug the product from the power outlet (or socket) and any other telecommunication interfaces before cleaning. Use a damp cloth for cleaning. Do not use liquid or aerosol cleansers.

Maintenance



Do not open the case in order to avoid electric shock or exposition to overvoltages. Improper mounting can cause electric shock during further use of the product. There are no parts inside the product that can be substituted by the user.

Damage requiring service/replacement



In case the product requires service unplug the product from the electrical outlet and contact your service provider.

Typical conditions which may require service:

- Liquid has been spilled into the product.
- The product does not operate normally when you follow the operating instructions.
- The product has been dropped or damaged.
- There are noticeable signs of overheating.
- The power cord, extension cord, or plug is damaged.
- A burning smell or smoke is perceived from the device.

UNPACKING YOUR WI-FI 6 ULTRA FAST HOME GATEWAY



Thunder Wi-Fi 6 Ultra Fast Home Gateway



Power Supply



DSL Splitter



Grey DSL Cable



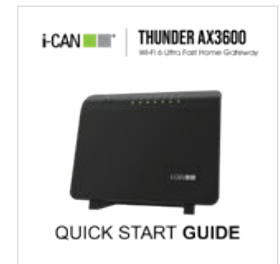
Yellow Ethernet Cable



Red Ethernet Cable

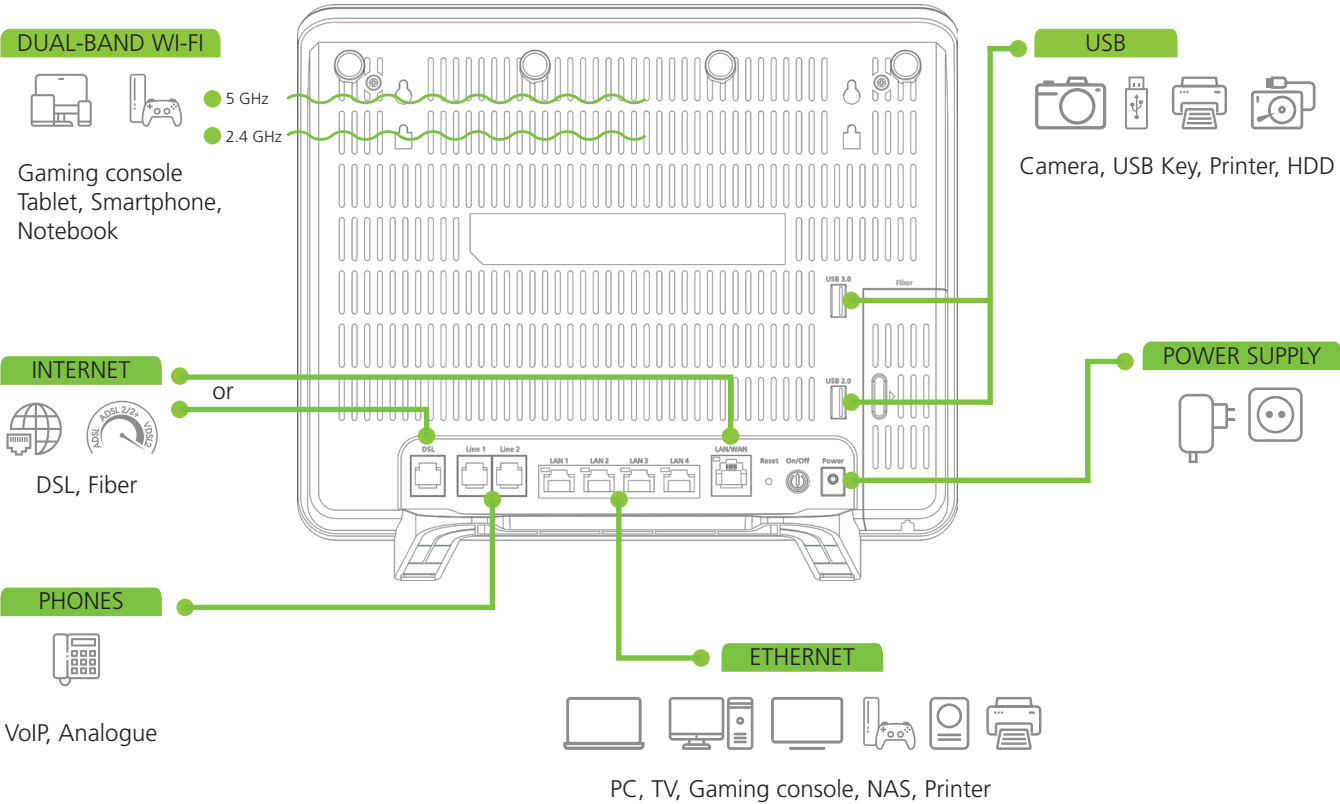


Safety Flyer




Quick Installation Guide

CONNECTIONS



01 Configuration Wizard

This chapter explains how to use the Configuration Wizard, which helps the user to quickly personalize the router and set up a connection to the Internet.

The Wizard can be launched by selecting **Wizard** in the drop-down menu available by clicking the **Menu** icon  in the GUI Home page (see Section 3).

■ NOTE:

Information needed for connecting to the Internet is typically provided by the ISP at the time a service subscription is finalized.

The Wizard comprises the following steps:

- Step 1: Selecting a language
- Step 2: Login and Password configuration
- Step 3: Entering the information for establishing a connection to the Internet, as determined by the Internet Service Provider (ISP)
- Step 4: Configuring Voice over IP Service (optional)
- Step 5: Assigning a name and a passphrase to secure the Wi-Fi home network (optional)
- Step 6: Personal Data Collection (optional)
- Step 7: Summary
- Step 8: Firmware Upgrade (automatic)

Step 1 – Selecting a Language

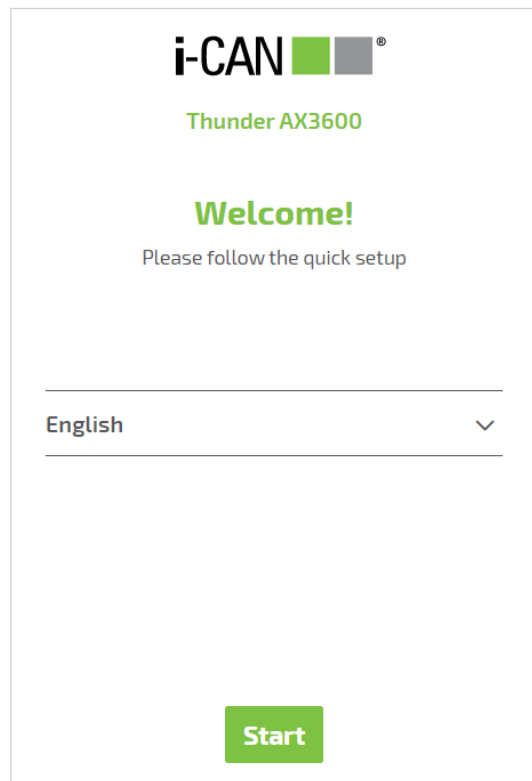
The **Welcome** screen will appear (see Figure 1), showing the i-CAN logo and the router model name.

To select a language:

1. Click **ARROW DOWN** next to the language name to display the list of available languages.
2. Click to select a language from the drop-down menu. The page refreshes with the selected language.

Click **Start** to initiate the setup process.

Figure 1. First Configuration Wizard - Language Selection



The image shows a web-based configuration wizard interface. At the top, the 'i-CAN' logo is displayed in black, followed by a green square and a grey square, with a registered trademark symbol. Below the logo, the router model 'Thunder AX3600' is written in green. A large green 'Welcome!' message is centered, followed by the instruction 'Please follow the quick setup' in a smaller, grey font. Below this, there is a horizontal line, followed by a drop-down menu showing 'English' with a downward arrow icon. Another horizontal line is below the menu. At the bottom center, there is a green rectangular button with the word 'Start' in white text.

Step 2 – Login and Password Configuration

Next, mandatory step is user **Login** and **Password** configuration as shown on the tab **Configure User** (see Figure 2). This step allows to create User's Login and Password for router access.

■ NOTE:

This information enables users to enter router's full configuration.

Please make sure to save the information properly.

1. Enter the name to be assigned to the user's Login (e.g., "admin")
2. Enter the password for the specified login name
3. Retype the password

When all the required information has been specified, the button **Next** becomes active, allowing to proceed to Wizard **Step 3**.

Click **Back** to return to the previous Step or **Next** to continue configuring the router.

Figure 2. First Configuration Wizard – User Configuration

The screenshot displays the 'i-CAN' logo at the top, followed by a progress indicator with five dots, the first of which is green. Below this is the title 'Configure User' in green. The instruction 'Please create your user inserting login and password (This step is mandatory)' is shown. There are three input fields: 'Login' (with a red label), 'Password', and 'Retype Password'. A checkbox labeled 'Show password' is present. Below the fields is a visual password strength indicator consisting of five segments. A list of requirements for a secure password is provided: 8 characters, one small letter, one capital letter, one digit, and one non-alphanumeric character. At the bottom are 'Back' and 'Next' buttons.

Step 3 – Connect to the Internet

A connection to the Internet can be set up by choosing one of the following two options (see Figure 3):

- **Predefined.** A list of pre-configured connections is shown, sorted by country and type. If the ISP and the subscribed connection type are present in the list, select the relevant entry and click Next
- **User Defined.** If the ISP and the subscribed connection type are not present in the list, the ISP name and connection parameters shall be manually entered, according to the documentation that should have been provided by, or could be obtained from the ISP.

■ **NOTE:**

Please make sure that the Internet cable is properly connected to the router.

Click **Back** to return to the previous Step or **Next** to continue configuring the router.

If this step is taken again at a later time from the **Internet** configuration page (Section 3.2) or by restarting the **Wizard** from the **Menu** in the **Home** page (see Section 4.6) it would be possible to click **Skip** to skip this step without any changes in the configuration of the Internet connection.

Figure 3. First Configuration Wizard – Internet connection set up

The screenshot shows the 'Internet Service Provider' configuration screen. At the top is the 'i-CAN' logo with a green and grey square icon. Below the logo is a progress bar with five dots, the second of which is green. The title 'Internet Service Provider' is in green. Below it, the instructions 'Please select your Internet Service Provider' and 'Please connect the Internet cable' are displayed. There are three dropdown menus: 'Predefined' (with a downward arrow), 'Country' (set to 'Italy' with a downward arrow), and 'Name' (set to 'Aruba' with a downward arrow). Below these is a section titled 'Enter user name and password' with two input fields: 'Login' and 'Password', both in red text. At the bottom left is a checkbox labeled 'Show password'. At the bottom right are two buttons: 'Back' (dark grey) and 'Next' (light grey).

Step 4 – Configure Voice over IP Service

As for the Internet connection setup, the configuration parameters to be specified in this step (see Figure 4) are typically provided by, or attainable from, the Internet Service Provider, after applying for a Voice over IP service subscription.

Click **Back** to return to the previous Step, **Skip** to skip this step or **Next** to continue setting up the device.

If this step is skipped, it would be possible to complete the configuration of the VoIP service at a later time from the **VoIP** configuration page (Section 3.5) or by restarting the **Wizard** from the **Menu** in the **Home** page (see Section 4.6).

Figure 4. First Configuration Wizard – Voice Service

i-CAN

● ● ● ● ●

Voice Service

Configure your Voice over IP Service

SIP Proxy Server Address

Port 5060

SIP Outbound Proxy

User Agent Domain

Lines Both ▾

Telephone Number

SIP User Name

SIP Password

☐ Show password

If you need to configure more parameters, skip this step and use "Advanced View" later.

Back Skip Next

Step 5 – Wi-Fi Network Configuration

This step allows to specify the Wi-Fi network name (SSID) and password by performing the following actions (refer to Figure 5)

1. Enter the name to be assigned to the network (SSID)
2. Enter the password
3. Retype the password

When all the required information has been specified, the button **Next** becomes active, allowing to proceed to Wizard **Step 6**.

If the Skip button is pressed, no changes will be made to the current values of SSID and password, displayed on the screen.

■ NOTE:


If the Wizard is run at first device switch-on or after a reset to device factory configuration, the SSID and password will be preset to their default values, which are printed on a label or encoded in the QR-Code on the device itself.

After the modification of Wi-Fi parameters in the Wizard, it will not be possible to use information printed on label or QR-Code.

The configuration can be completed later on from the **Wi-Fi** configuration page (Section 3.3) or by restarting the **Wizard** from the **Menu** in the **Home** page (see Section 4.6).

The **Back** button can be clicked to return to the previous Step.

Figure 5. First Configuration Wizard – Wi-Fi Access Point

i-CAN 

● ● ● ● ● ● ●

Wi-Fi Access Point

Give a name and set passphrase
to secure your Wi-Fi home network

WLAN-ThunderAX

●●●●●●●●

●●●●●●●●

☐ Show password

Back **Skip** **Next**

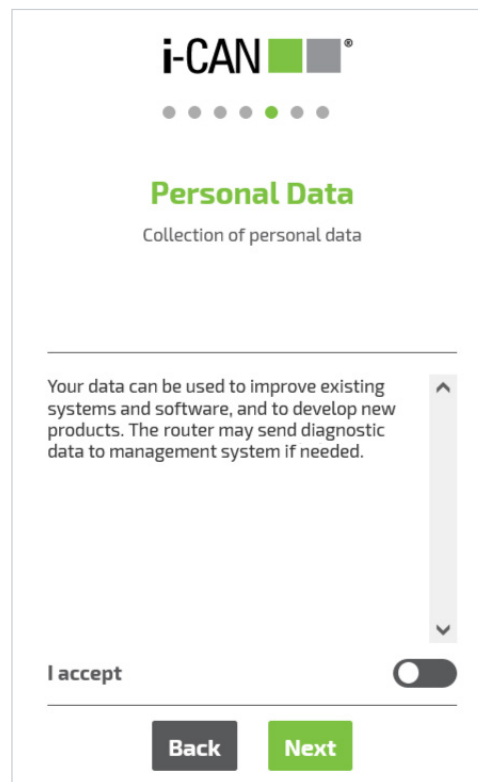
Step 6 – Personal Data Collection

The next step allows to express your consent (refer to Figure 6) to collecting and transferring diagnostic data from the router to management system if needed.

Data collection acceptance is optional, users can accept (enabling button in the menu) or discard.

Click **Back** to return to the previous Step or **Next** to continue configuring the router.

Figure 6. First Configuration Wizard – Personal Data



i-CAN

● ● ● ● ● ● ●

Personal Data

Collection of personal data

Your data can be used to improve existing systems and software, and to develop new products. The router may send diagnostic data to management system if needed.

I accept ☐

Back **Next**

Step 7 - Summary

The **Summary** page will be shown listing all device settings specified during the procedure (see Figure 7).

Click **Back** to revisit the previous steps if any setting needs to be changed or **Apply** to confirm the configuration.

■ NOTE:

Applying the configuration, router will connect to Internet using inserted parameters. If WAN interface failure occurs, the router will provide the skip option and will redirect to router's homepage for manual configuration. Router's GUI allows to configure WAN connection manually or to restart the Wizard process. (refer to figure 13)

Figure 7. First Configuration Wizard - Summary

i-CAN

● ● ● ● ● ● ●

Summary

Please tap "Apply"
to dive in Connected World

- Language **en**
- Configure User **admin**
 - Password **admin**
- Configure ISP **Italy/WIND Vdsl**
- Internet access username **user**
- Internet access password **user**
- WAN type **VDSL**
 - Link **PPPoE**
 - VLAN ID **835**
- Voice Service
 - SIP Proxy Server Address **42.1.1.103**
 - SIP Proxy Server Port **5060**
 - SIP Outbound Proxy
 - User Agent Domain **sip.infostrada.it**
 - Line
 - Telephone Number **0264135851**
 - SIP User Name **0264135851**
- Wi-Fi Access Point **WLAN-ThunderAX**
 - Password **AFXtaFdF**
- Collection of personal data **Accepted**

Back **Apply**

Step 8 – Firmware Upgrade

After displaying the Summary page containing all device settings specified during the procedure and carrying out auto-configuration in accordance with these settings, a page with information about the availability of the Firmware upgrade may appear (see Figure 8).

Firmware Upgrade is automatic procedure. Upgrading router to the latest available software release takes place from the page illustrated in Figure 8.

The page shows the following information:

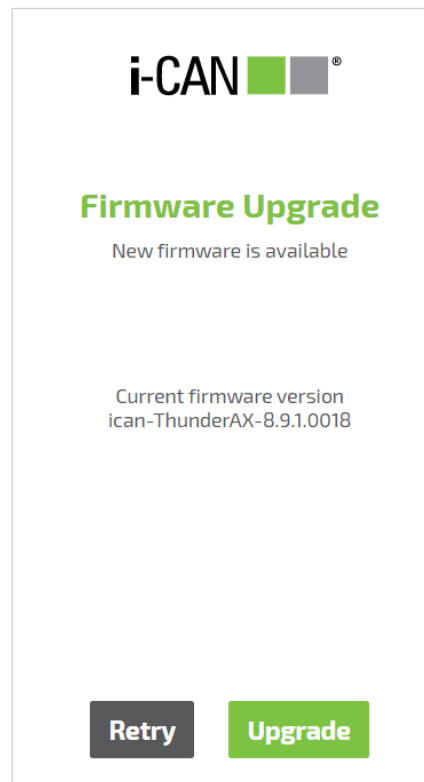
1. New firmware is available
2. Current firmware version

Click **Upgrade** to start the automatic installation of new software or **Retry** to check for a newer firmware version again.

■ NOTE:

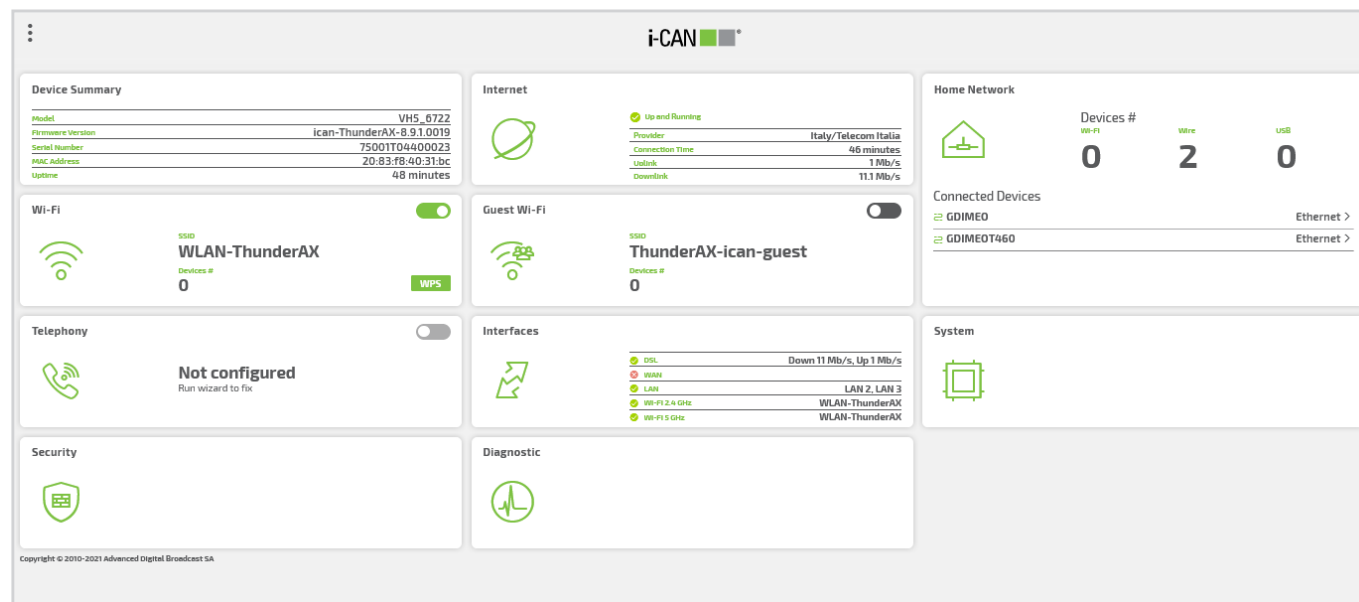
If new firmware release is available, the firmware upgrade process will take about 2 minutes.

Figure 8. First Configuration Wizard – Firmware Upgrade



Upon successful application of all configuration parameters, the Wizard will close, and the **Home** page will be displayed (see Figure 9). A detailed description of the **Home** page content is provided in Section 3.

Figure 9. Home page



02 Use a Web Browser to Access Router Configuration

The router's web interface allows viewing or changing router settings, and displaying the information about its current status.

To access the router's web user interface:

1. Connect your device to the router via LAN cable or Wi-Fi (refer to product Quick Installation Guide).
2. Ensure that the router is switched on.
3. Open a web browser on a device connected to the router.
4. Enter the router's IP address (default: `http://192.168.1.1`) or router name (`i-can.thunder`) in the browser address field (see Figure 10).
5. The **Login** page will show up (see Figure 11).
6. Enter the router login name created during Configuration Wizard Step 2 (e.g., "admin").
7. Enter the password for the specified login name created during Configuration Wizard Step 2.
8. Optionally change the display language using the relevant dropdown list.
9. Click the **Login** button.

Figure 10. Address Field

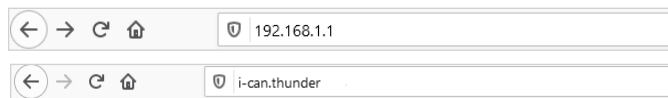


Figure 11. Login Page

The image shows the login interface of the i-CAN router. At the top is the i-CAN logo. Below it is a green 'Welcome' message followed by the instruction 'Enter login and password'. There are two input fields: one labeled 'Login' and another labeled 'Password'. Below the password field is a checkbox labeled 'Show password'. At the bottom left is a dropdown menu for language selection, currently showing 'English'. A green 'Login' button is positioned at the bottom center.

■ NOTE:

The password is not shown in clear even during typing, unless the "Show password" checkbox is ticked. This also applies to all other places where a password field is present.

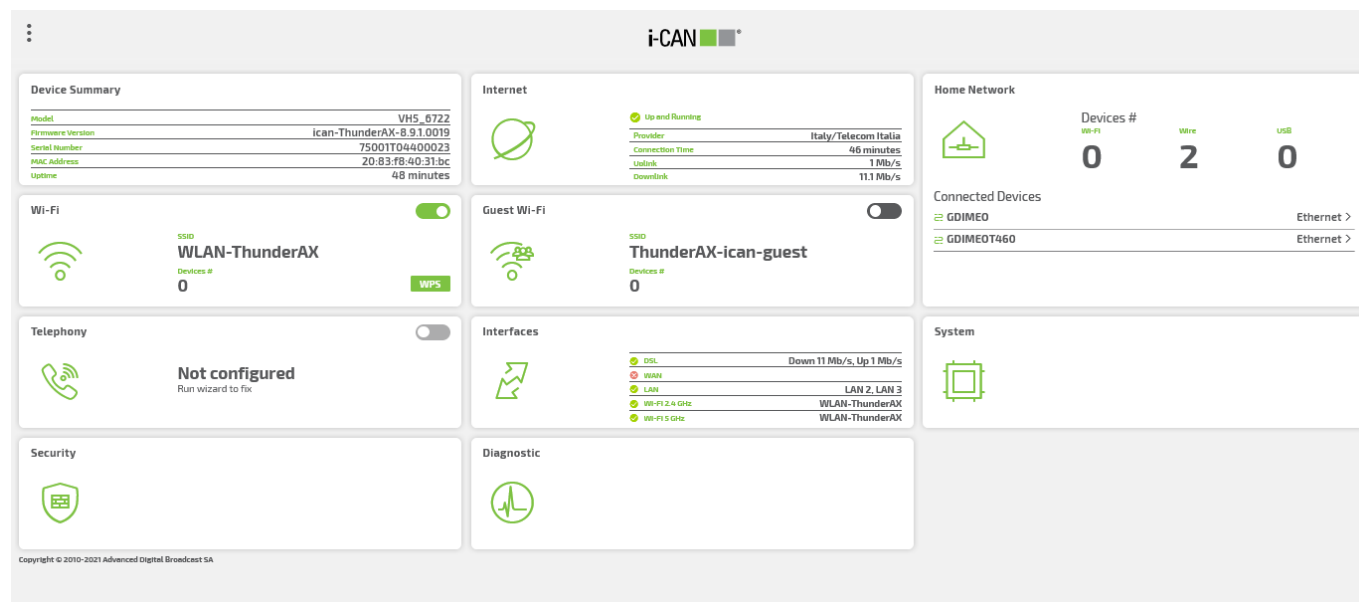
Upon successful login, the **Home** page is displayed

The **Home** screen provides a complete overview of the router's status and configuration settings.

■ NOTE:

User Interface sessions are automatically terminated after a predefined inactivity timeout. The Login page will be shown again to allow for user re-authentication.

Figure 12. Home Page



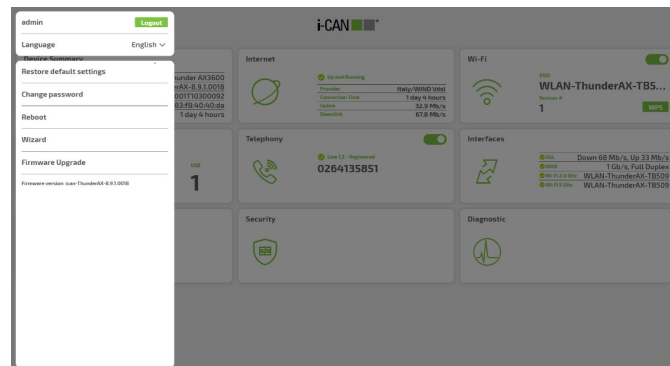
03 Menu

The **Menu** panel (see Figure 13) is displayed on the screen left side by clicking the **Menu** icon in the **Home** page.

The panel includes a number of items corresponding to actions that can be performed on the device or the device configuration pages, namely

- **Logout** (button, see Section 3.1)
- GUI **Language** choice (see Section 3.2)
- **Restore default settings** (see Section 3.3)
- **Change password** (see Section 3.4)
- **Reboot** (see Section 3.5)
- **Wizard** (see Section 3.6)
- **Firmware Upgrade** (see Section 3.7)

Figure 13. Menu



3.1 Logout

The **Logout** button (Figure 14) allows to log out from the ongoing GUI session.


1. Click on the **Menu** icon  in the **Home** page to display the Menu.
2. Click the **Logout** button.

Figure 14. Logout button



3.2 Language

The **Language** menu entry allows to select the language used in the GUI.

To change the current language:


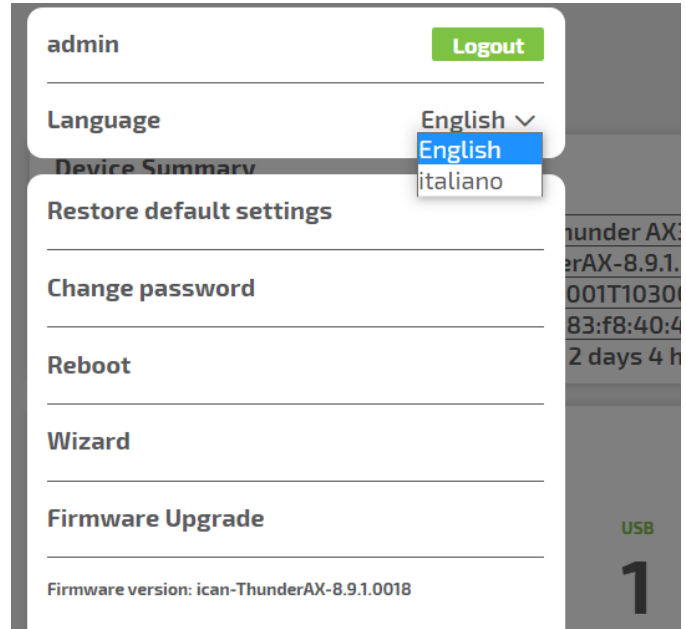
1. Click on the **Menu** icon  in the **Home** page to display the **Menu**.
2. Click the **ARROW DOWN** icon next to the language name. to display the language drop-down menu (see Figure 15).
3. Select a language from the menu.
4. The page refreshes with the chosen language.

Figure 15. Language settings



3.3 Restore Default Settings

The **Restore Default Settings** panel allows, upon confirmation, to reset the router to its factory default configuration.

■ **WARNING:**

This action will cause the current router configuration to be lost.

To restore factory default settings:


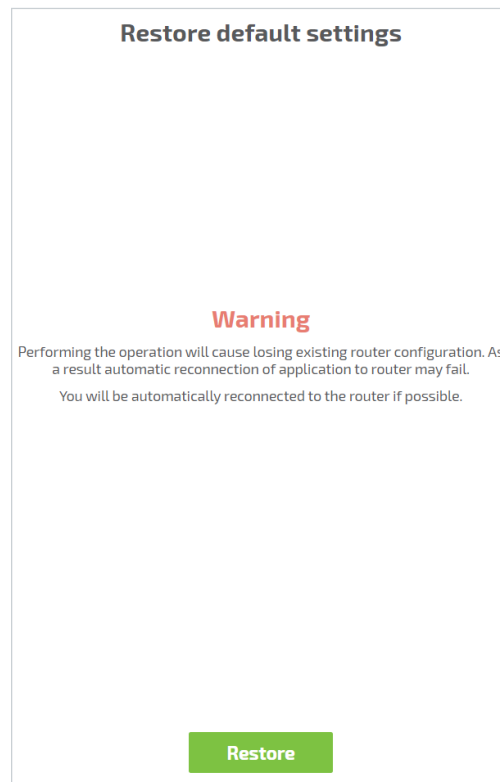
1. Click on the **Menu** icon  in the **Home** page to display the **Menu**.
2. Click **Restore Default Settings** menu entry: a page will appear displaying a warning message (see Figure 16).
3. Click the **Restore** button to confirm. The process starts.
4. When factory settings are successfully restored, the user will be automatically reconnected to the router. If the operation fails, the user will be asked to log in again.


Figure 16. Restore Default Settings panel



3.4 Change Password

The **Change Password** panel (Figure 17) allows to change the password for the user account.

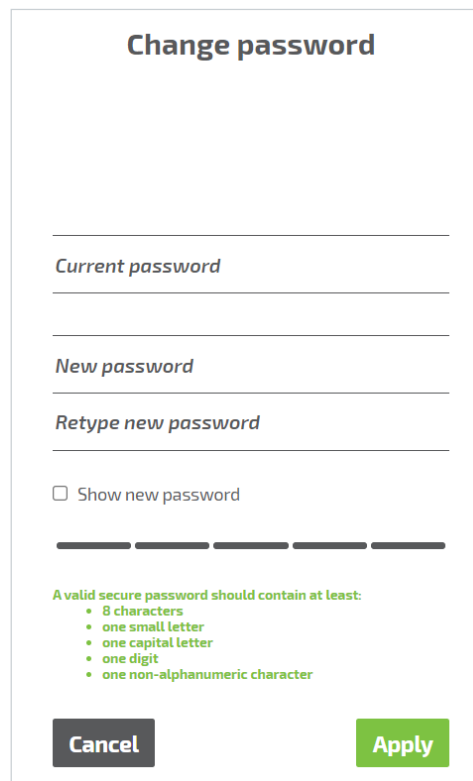
To change the password:

1. Click on the **Menu** icon  in the **Home** page to display the **Menu**.
2. Click **Change Password** menu entry: a page will appear where the password can be modified (see Figure 17).
3. Enter the current password.
4. Enter the new password.
5. Retype the new password.
6. If the same set of characters has been entered at steps 4 and 5, the **Apply** button becomes active and can be clicked to operate the password change.

■ NOTE:

The panel includes suggestions for choosing a secure password and reports a visual indication about the security grade of the one being typed. The user is however free to select whatever string he desires as the new password.

Figure 17. Change Password panel



The screenshot shows a 'Change password' panel with a title bar. It contains three input fields: 'Current password', 'New password', and 'Retype new password'. Below these fields is a checkbox labeled 'Show new password'. Underneath the checkbox is a visual security indicator consisting of five horizontal bars of varying lengths. Below the indicator, a green text label states 'A valid secure password should contain at least:' followed by a bulleted list: '8 characters', 'one small letter', 'one capital letter', 'one digit', and 'one non-alphanumeric character'. At the bottom of the panel are two buttons: a grey 'Cancel' button and a green 'Apply' button.

3.5 Reboot

The **Reboot** panel allows, upon confirmation, to reboot the router.

To reboot the router:


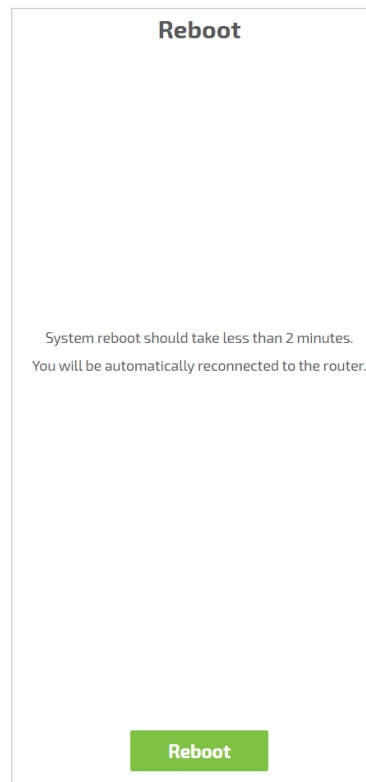
1. Click on the **Menu** icon  in the **Home** page to display the **Menu**.
2. Click **Reboot** menu entry: a page will appear displaying a notification about the reboot process (see Figure 18).
3. Click the **Reboot** button: the reboot progress pop-up (see Figure 23) will be shown until the operation completes.
4. When reboot terminates, the **Login** page will be automatically displayed in the same browser window.

Figure 18. Reboot panel



3.6 Wizard

The **Wizard** entry in the **Menu** panel restarts the configuration Wizard, described in Section 1.


■ NOTE:

The value displayed for the various configuration parameters that can be set in Wizard pages is the one currently applied. When the Wizard is run for the first time, this will correspond to the value set as factory default. For all successive Wizard execution, the value shown is the one set beforehand.

3.7 Firmware Upgrade

The **Firmware Upgrade** panel allows uploading and executing a new firmware image, by selecting the file that contains the image from a location in the Home Network or the Internet.

To upgrade the firmware:

1. Click on the **Menu** icon  in the **Home** page to display the **Menu**.
2. Click **Firmware Upgrade** menu entry: a page will appear displaying the version of the currently installed firmware and asking to select the file containing the new image
3. Click **Select File**: a file browser windows will appear through which it will be possible to navigate to the folder containing the new firmware image file and select it for upload
4. Click the **Upload** button
5. If the file is correctly transferred and contains a valid firmware image, the device will reboot automatically using the new firmware version

■ **NOTE:**

*This process may require several minutes to be completed.
Please do not switch off the router.*

Figure 19. Firmware Upgrade panel

Firmware Upgrade

Current firmware version

ican-ThunderAX-8.9.1.0018

Please select a valid firmware image file to upload

Note: After uploading the new firmware, the device will reboot

Select File

>

Upload

Check ONLINE

04 Home Page

After having successfully logged in, the **Home** page will be displayed (see Figure 12).

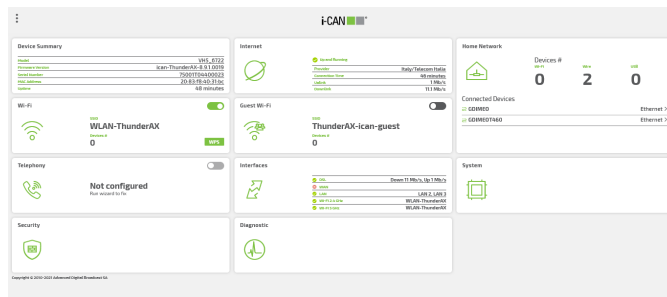
The page consists of Menu tiles, each showing an overview of the current status of a specific functional area of the router, and possibly allowing to perform simple function-specific activation / deactivation actions. When clicked, each tile displays a page with more details and configuration options relevant to the function it represents.

Information directly available from Home page tiles consists of:


- **Device Summary** with list of:
 - Model name
 - Firmware Version
 - Serial Number
 - MAC Address
 - Uptime
- **Internet** (see Section 4.2 for more information)
 - Connection profile
 - Status of the connection
 - Uplink and Downlink speed
- **Wi-Fi** (see Section 4.3 for more information)
 - Radio switch-on / switch-off toggle
 - Network name (SSID)
 - Number of currently connected devices
 - WPS function

- **Wi-Fi-Guest** (see Section 4.4 for more information)
 - Radio switch-on / switch-off toggle
 - Network name (SSID)
 - Number of currently connected devices
- **Home Network** (see Section 4.5 for more information)
 - Number of connected devices
 - Connections typology (ethernet / Wi-Fi)
- **Telephony** (see Section 4.6 for more information)
 - Service enable / disable toggle
 - Phone lines status
 - List of more recent phone calls

Figure 12. Home Page



- **Interfaces** (see Section 4.7 for more information)
 - Type, Status, Downlink and Uplink speed of the Physical Link to ISP
 - Status, speed, and mode of the WAN interface
 - Status of LAN interfaces and connected ports
 - Status and Network names (SSID) for 2,4 & 5 GHz Wi-Fi interfaces
- **System** (see Section 4.8 for more information)
- **Security** (see Section 4.9 for more information)
- **Diagnostic** (see Section 4.10 for more information)

When clicked, the **Menu icon**  shown in the **Home** page upper left corner (see section 3) opens a list box containing a number of actions, including e.g., session logout, language selection, password change, router reboot, Wizard configuration, firmware upgrade (see Figure 13).

More information about **Menu actions** are provided in Section 4.

Figure 12. Home Page

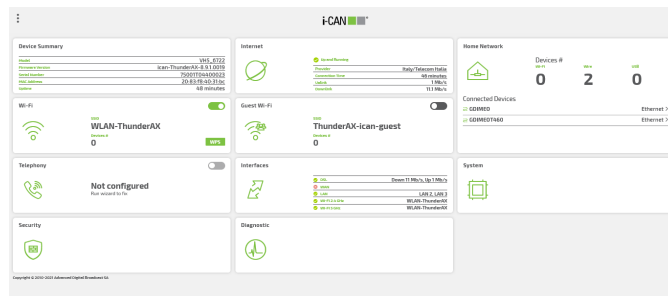
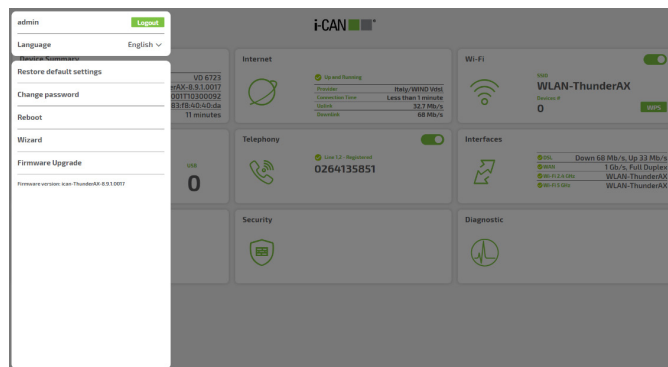


Figure 20. Home - Menu Displayed



4.1 Configuration pages structure

As written in the previous Section, clicking a tile in the **Home** page will cause a tile-specific page to be displayed.

Figure 21 illustrates an example screen with information appearing after clicking the **Internet** tile. Each tile-specific page will show up leaving the leftmost and rightmost parts of the **Home** page dimmed but still visible on the screen sides. Clicking anywhere on the dimmed area will bring the **Home** page back, the same effect can also be achieved by clicking **ARROW LEFT** at the top left corner of the page.

Tile-specific pages are organized in two panes, the one on the left listing the main page sections and the one on the right reporting status information and/or settings for the functionalities represented by those sections.

Clicking on section names in the left panel will bring information of that section top aligned in the right pane, possibly displaying items not visible beforehand.

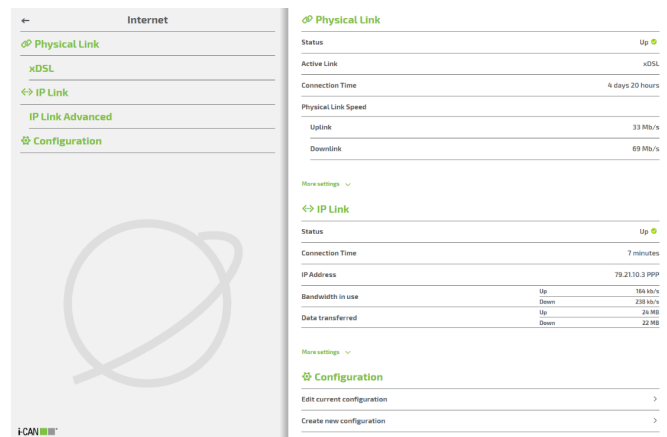
Additional details on each section can be displayed by clicking **More settings** at the bottom of section information areas. This will also normally cause the entire right panel to become vertically scrollable.

When one or more configuration parameters are changed in a page, and provided the specified values are valid, the **APPLY** button



will appear in the page bottom right corner.

Figure 21. Example of page activated by tile in Home page (Internet)



If invalid or incomplete settings have been specified for at least one parameter, the button will be shown greyed out



and disabled until such settings have been corrected.

Any change made in the page will become effective only after the **APPLY** button has been clicked.

Conversely, modifications can be discarded by leaving the page without clicking **APPLY**: in that case, a pop-up windows will be displayed asking to confirm this action, contextually offering the possibility of reenter the configuration page (see Figure 22).

Some configuration changes require the router to be rebooted: in this case, a warning page will pop-up (See Figure 23) notifying the need for such action and asking for a confirmation to proceed.

During reboot a progress bar will be shown with the indication of the approximate time remaining for completing the operation (see Figure 24).

When reboot terminates, a notification is issued and the user is redirected to home page and requested to login again.

Figure 22. Discard changes confirmation pop-up

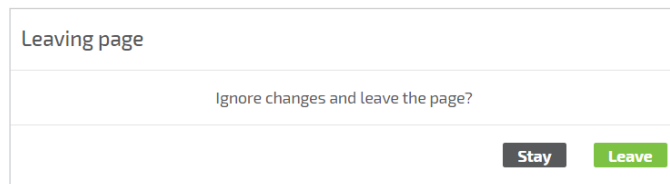


Figure 23. Reboot warning

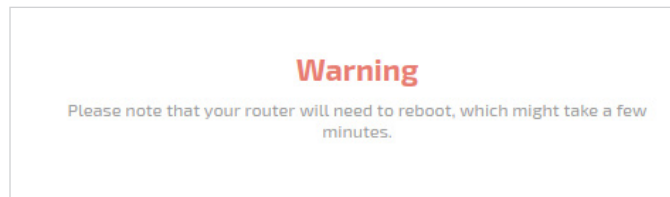
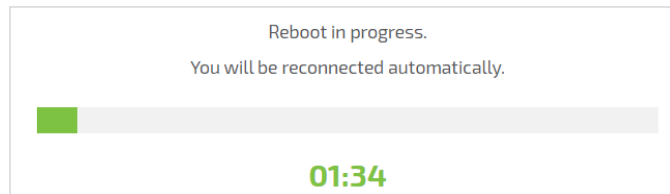


Figure 24. Reboot ongoing



4.2 Internet

The **Internet** tile in the **Home** page (see Figure 12) displays the current status of the connection with the Internet, namely whether or not the physical link is up or down, whether a public IP address has or not been assigned to the router, and, if the link is fully working, the current Uplink and Download speed.

The **Internet** page (see Figure 25) opens when clicking the **Internet** tile in the **Home** page (see Section 3).

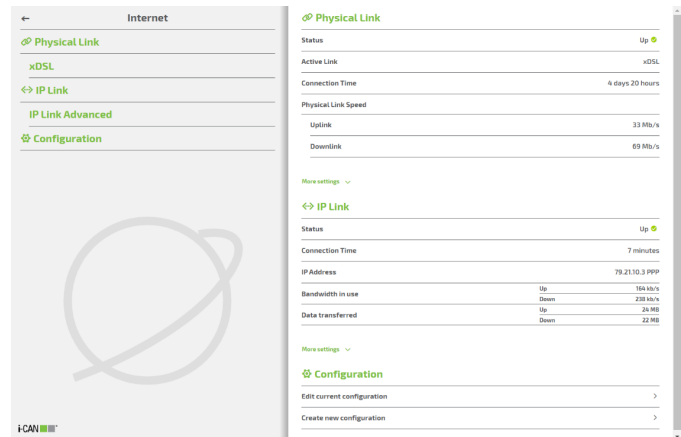
The page left panel lists five sections, namely

- Physical Link
- xDSL
- IP Link
- IP Link Advanced
- Configuration

whose relevant details are expanded in the page right panel. Note that clicking **More settings** in the **IP Link** section in the right panel has the same effect as clicking **IP Link Advanced** in the left panel.

Information reported for each section is described below.

Figure 25. Internet page



Physical Link (Figure 26)

Status	The status of Internet connection at physical layer: “Up” means the connection active, “Down” means the connection is not active.
Active Link	The technology used by the physical link e.g., xDSL , Ethernet . In case when the router can connect to the Internet using more than one link type, the currently active one is reported. If no link is active, Active Link indicates “Not configured” and a link is shown leading to a Troubleshooting page.
Connection Time	How long the Internet connection physical layer has been in the “Up” status.
Physical Link Speed	The bitrate measured at physical layer in the “Uplink” (to the Internet) and “Downlink” (from the Internet) directions.
More settings	Additionally, technology-specific details about the physical link status. As an example, Figure 20 shows information displayed for a xDSL link: such information can be useful to assist on-line troubleshooting activity operated by the Service Provider help desk.

Figure 26. Physical Link information

 Physical Link	
Status	Up 
Active Link	xDSL
Connection Time	4 days 20 hours
Physical Link Speed	
Uplink	33 Mb/s
Downlink	69 Mb/s
More settings 	

Figure 27. xDSL Physical Link “More settings”

xDSL		
DSL Type		VDSL2
SNR Margin	Up	6dB
	Down	8.2dB
Line Attenuation	Up	1.8dB
	Down	15.6dB
Output Power	Up	-26.5dB
	Down	7dB
CRC Errors	CV-C	223 795
	CV-CFE	28 436
FEC Errors	FEC-C	0
	FEC-CFE	70 632 429
Packets transferred	Up	227 807 275
	Down	109 096 434
Packets Errors	Up	28 436
	Down	223 795

IP Link (Figure 28)

Status	The current status of Internet connection at IP layer: “Up” means that the router has received from the ISP enough information (IP address, DNS server address) to navigate the Internet, “Down” means some problem is preventing accessing the network.
Connection Time	How long the Internet connection IP layer has been in the “Up” status.
IP Address	When Status is “Up”, the public IP address assigned to the router by the Internet Service Provider.
Bandwidth in use	Currently used link bandwidth in Uplink (“Up”) and Downlink (“Down”) directions.
Data transferred	Data transferred in Uplink and Downlink directions since last router switch-on.
More settings	Additional details about the IP link status (see Figure 29). These are listed in: <ul style="list-style-type: none">■ Default Gateway IP Address (assigned by the ISP)■ DNS Server IP Address(es) (assigned by the ISP or manually in Advanced Configuration pages)■ Packets correctly transferred or transferred with errors in Uplink and Downlink directions since last router switch-on

Figure 28. IP Link information

<=> IP Link		
Status	Up	
Connection Time	9 minutes	
IP Address	79.21.10.3 PPP	
Bandwidth in use	Up	197 kb/s
	Down	160 kb/s
Data transferred	Up	25 MB
	Down	24 MB
More settings		

Figure 29. IP Link “More settings”

More settings

Def. Gateway Address

195.1.1.254

DNS Servers Addresses

41.1.1.103

Packets transferred

Up

340 448

Down

335 024

Packets Errors

Up

0

Down

0

If there is no Internet connection, additional menu entries will be shown - **Troubleshooting** (see Figure 30).

Click it to go directly to the **Troubleshooting** section.

Figure 30. Internet Disconnected

Physical Link

Troubleshooting

StatusDown

Active LinkxDSL

Connection TimeNot Connected

Physical Link Speed

Uplink

Downlink

More settings

IP Link

Troubleshooting

StatusNot Connected

Connection TimeNot Connected

IP AddressNo IP Address

Bandwidth in useUpDown

Data transferredUpDown18 MB14 MB

More settings

Configuration

Edit current configuration

Create new configuration

4.3 Wi-Fi and Wi-Fi Guest

The **Wi-Fi** and **Wi-Fi Guest** tiles in the **Home** page (see Figure 12) provide basic status information about the wireless network managed by the router:

- wireless network name (SSID)
- number of connected devices

Wi-Fi tile allows performing basic actions on the wireless network, specifically:

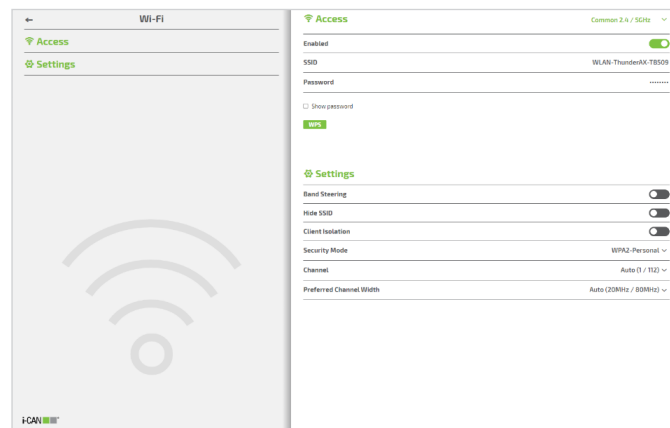
- enable / disable Wi-Fi connection via the ON/OFF slider button
- use the WPS button to trigger the WPS (Wi-Fi Protected Setup) process, used for associating a wireless client to the router without the need of entering the Wi-Fi password on the client; this has the same effect as pressing the physical button on the router

Wi-Fi Guest tile allows performing basic actions on the wireless network, specifically:

- enable / disable Wi-Fi connection via the ON/OFF slider button

To bring up more details about the Wi-Fi connection, click on the **Wi-Fi** tile. A **Wi-Fi** detailed view page will be displayed (Figure 31), allowing to configure Wi-Fi parameters.

Figure 31. Wi-Fi Page



Access section (Wi-Fi and Wi-fi Guest)

2.4 / 5 GHz
Network
Setting
Mode

(drop-down
menu on the
page right top)

Enabled
(ON/OFF slider
button)

Network
Name
(SSID)

Password

WPS

Switches between “**Common 2.4 / 5GHz**” (Figure 32 - shortened as “Common” in the following) and “**Separate 2.4 and 5GHz**” (Figure 33 - “Separate”) setting modes for the 2.4 GHz and 5 GHz bands:

- choosing “Common” mode, the same status and configuration parameters will be presented or applied to both bands
- choosing “Separate” mode causes both Access and Settings sections to split in two parts, where status and configuration parameters are separately presented for the two bands

Enables or disables the wireless network (one or both bands, depending on the selected mode)

Displays / modifies the name of the wireless network (one or both bands, depending on the selected mode)

Displays / modifies the Wi-Fi password of the wireless network (one or both bands, depending on the selected mode); the password is displayed in clear only when the “**Show password**” box is checked

Triggers the WPS pairing process

Figure 32. Wi-Fi Access section (Common 2.4 / 5GHz)

The screenshot shows the 'Wi-Fi Access' configuration page. At the top right, a dropdown menu is set to 'Common 2.4 / 5GHz'. The main section contains three rows: 'Enabled' with a green toggle switch, 'SSID' with the value 'WLAN-ThunderAX-TB509', and 'Password' with a masked password '.....'. Below the password field is a checkbox for 'Show password' which is unchecked. At the bottom is a green 'WPS' button.

Figure 33. Wi-Fi Access section (Separate 2.4 and 5GHz)

The screenshot shows the 'Wi-Fi Access' configuration page with the dropdown menu set to 'Separate 2.4 and 5GHz'. The page is divided into two sections. The '2.4 GHz' section has 'Enabled' (green toggle), 'SSID' (WLAN-ThunderAX-TB509), 'Password' (masked), 'Show password' (unchecked), and a 'WPS' button. The '5 GHz' section has 'Enabled' (green toggle), 'SSID' (WLAN-ThunderAX-TB509), 'Password' (masked), 'Show password' (unchecked), and a 'WPS' button.

Settings section (Figure 34):

- Band Steering

(ON/OFF slider button)
- Hide SSID

(ON/OFF slider button)
- Client isolation

(ON/OFF slider button)
- Security Mode

(drop-down menu)
- Selects whether or not the SSID is advertised to Wi-Fi client devices: choose **ON** to hide the SSID, **OFF** to reveal it.
- When set to **OFF**, wireless clients can see each other as well as other devices in the Home Network and mutually exchange data; when set to **ON**, each wireless client can only connect to the Internet.
- Displays, and allows to change, the Wi-Fi security mode. When clicking **ARROW DOWN**, the following options are shown: **None** (no security), **WPA2-Personal** (preferred) and **WPA-WPA2-Personal** (for interoperability with older wireless clients).

Figure 34. Wi-Fi Settings section (Separate 2.4 and 5GHz)

Settings

Band Steering

2.4 GHz

Hide SSID

Client Isolation

Security Mode

WPA2-Personal

Channel

Auto (1)

Preferred Channel Width

Auto (20MHz)

5 GHz

Hide SSID

Client Isolation

Security Mode

WPA2-Personal

Channel

Auto (112)

Preferred Channel Width

Auto (80MHz)

Channel

Displays, and allows to change, the Wi-Fi radio channel in use in each band (see Figure 35).

The options shown when clicking **ARROW DOWN** depend on band (2.4 GHz or 5 GHz):

- 2.4 GHz: "Auto", "1" ÷ "13"
- 5 GHz: "Auto", "36", "40", "44", "48"

The "Auto" option lets the router automatically select the best channel based on a survey of the radio environment.

In "Common" mode, the only allowed choice is "Auto", since the sets of available channels in the 2.4 GHz and 5 GHz bands are disjointed. The selected channel is shown in brackets after the word "Auto".

■ NOTE:

The 5 GHz network channel chosen with the "Auto" setting may not be one of those listed for manual selection. This is due to the fact that national radio regulations allow the usage of some channels only if specific checks are made beforehand. Therefore, such channels cannot be manually selected by the user.

Figure 35. Wi-Fi Settings section (Manual channel selection)

Settings

Band Steering

2.4 GHz

Hide SSID

Client Isolation

Security Mode

WPA2-Personal

Channel

1

Preferred Channel Width

Auto (20MHz)

5 GHz

Hide SSID

Client Isolation

Security Mode

WPA2-Personal

Channel

48

Preferred Channel Width

Auto (80MHz)

Preferred Channel Width

Displays, and allows to change, the bandwidth of the Wi-Fi radio channel in use by each network.

The options shown when clicking **ARROW DOWN** depend on the router model and the network band (2.4 GHz or 5 GHz):

- 2.4 GHz: "Auto", "20", "40"
- 5 GHz: "Auto", "20", "40", "80", "160"

The "Auto" option lets the router automatically select the best bandwidth. "Auto" is the only option available in "Common" mode. Furthermore, in "Separate" mode, options different from "Auto" are only available if **Channel** is not set to "Auto".

■ NOTE:

Changing the mode from "Separate" to "Common" is not allowed until all settings are modified to be the same for both 2.4 GHz and 5GHz networks.

Figure 36. Wi-Fi Settings section (Channel Width selection)

⚙ Settings

Band Steering

2.4 GHz

Hide SSID

Client Isolation

Security Mode

WPA2-Personal

Channel

1

Preferred Channel Width

40MHz

5 GHz

Hide SSID

Client Isolation

Security Mode

WPA2-Personal

Channel

48

Preferred Channel Width

80MHz

i-CAN 37

4.4 Wi-Fi Guest

The **Wi-fi Guest** tile in the **Home** page (see Figure 12) provides basic status information about the Guest wireless network managed by the router:

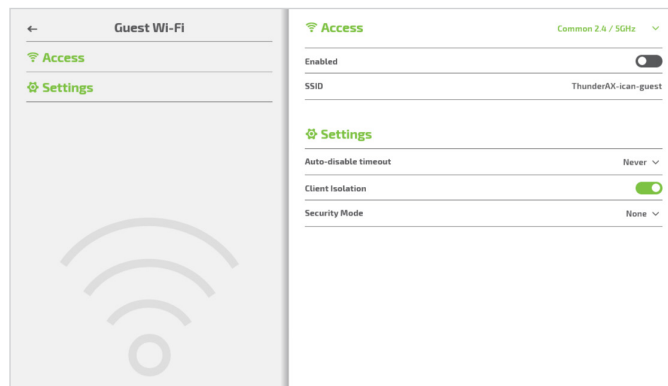
- wireless network name (SSID)
- number of connected devices

Wi-Fi Guest tile allows performing basic actions on the wireless network, specifically:

- enable / disable Wi-Fi connection via the ON/OFF slider button

To bring up more details about the Wi-Fi connection, click on the **Wi-Fi Guest** tile. A **Wi-Fi** detailed view page will be displayed (Figure 31), allowing to configure Wi-Fi parameters.

Figure 31. Wi-Fi Guest Page



Access section

2.4 / 5 GHz
Network Setting
Mode

(drop-down menu
on the page right
top)

Switches between “**Common 2.4 / 5GHz**” (Figure 32 - shortened as “Common” in the following) and “**Separate 2.4 and 5GHz**” (Figure 33 - “Separate”) setting modes for the 2.4 GHz and 5 GHz bands:

- choosing “**Common**” mode, the same status and configuration parameters will be presented or applied to both bands
- choosing “**Separate**” mode causes both **Access** and **Settings** sections to split in two parts, where status and configuration parameters are separately presented for the two bands

Enabled

(ON/OFF slider
button)

Enables or disables the wireless network (one or both bands, depending on the selected mode)

Network Name
(SSID)

Displays / modifies the name of the wireless network (one or both bands, depending on the selected mode)

Password

Displays / modifies the Wi-Fi password of the wireless network (one or both bands, depending on the selected mode); the password is displayed in clear only when the “Show password” box is checked

Figure 32. Wi-Fi Access section (Common 2.4 / 5GHz)

Access

Common 2.4 / 5GHz

Access

Common 2.4 / 5GHz

Enabled

SSID

ThunderAX-ican-guest

Password

6nmolv4yk

Figure 33. Wi-Fi Access section (Separate 2.4 and 5GHz)

Access

Separate 2.4 and 5GHz

Access

Separate 2.4 and 5GHz

2.4 GHz

Enabled

SSID

ThunderAX-ican-guest

Password

Show password

5 GHz

Enabled

SSID

ThunderAX-ican-guest

Password

Settings section (Figure 34):

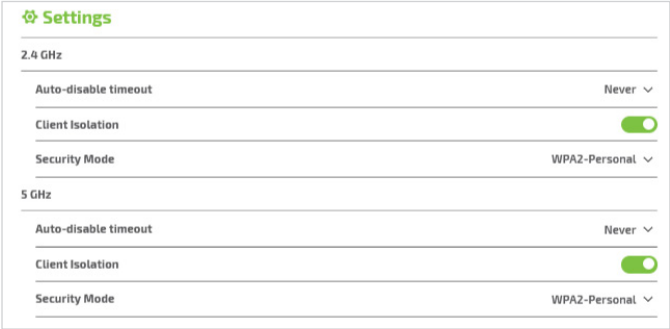
- Auto-disable timeout
(drop-down menu)

Selects whether or not timeout for network availability with options: Never / End of today / End of Tomorrow.
- Client isolation
(ON/OFF slider button)

When set to **OFF**, wireless clients can see each other as well as other devices in the Home Network and mutually exchange data; when set to **ON**, each wireless client can only connect to the Internet.
- Security Mode
(drop-down menu)

Displays, and allows to change, the Wi-Fi security mode. When clicking **ARROW DOWN**, the following options are shown: None (no security), **WPA2-Personal** (preferred) and **WPA-WPA2-Personal** (for interoperability with older wireless clients).

Figure 34. Wi-Fi Settings section (Separate 2.4 and 5GHz)



4.5 Home Network

Home Network tile in the **Home** page (see Figure 12) reports the number of home network devices currently connected to the router, distinguished by the type of connection link (Wi-Fi, Wired or USB).

Clicking on the **Home Network** tile brings up the **Home Network** page (see Figure 37).

The page left panel lists four sections, namely

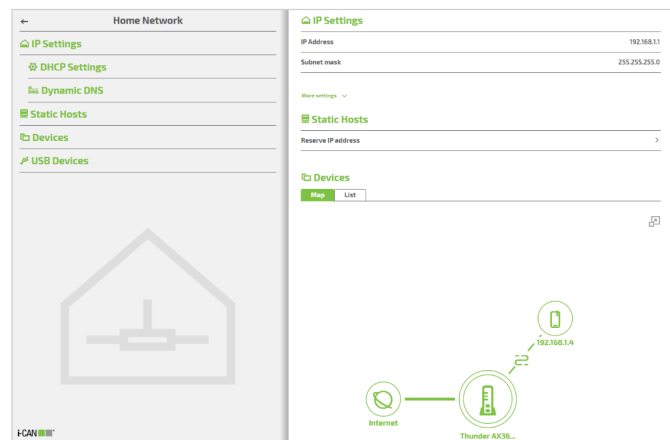
- IP Settings
 - DHCP Settings
 - Dynamic DNS
- Static Hosts
- Devices
- USB Devices

whose relevant details are expanded in the page right pane.

Note that clicking More settings in the IP Settings section in the right panel will display the same information shown when clicking DHCP Settings or Dynamic DNS.

Information reported for each section is described below.

Figure 37. Home Network



■ WARNING:

Default values of parameters in IP Settings, DHCP Settings, and Static Hosts sections should be left unchanged if IP addressing concepts are not well understood.


IP Settings section (Figure 38):

IP Address	Displays, and allows to change, the private IP address assigned to the router in the Home Network.
Subnet Mask	Displays, and allows to change, the range of IP addresses that will be assigned to devices in the Home Network.

DHCP Settings section (Figure 39):

DHCP Server (ON/OFF slider button)	Enables ("ON") or disables ("OFF") the router's DHCP server, used to automatically assign IP addresses to Home Network devices
IP Address Pool:	Displays, and allows to change, the range of IP addresses that will be assigned by the DHCP Server to devices in the Home Network. The range is defined by addresses specified for the "Start IP" and "End IP" parameters, both of which must be within the subnet specified by "IP Address" and "Subnet Mask".
Domain Name:	Displays, and allows to change, the domain name used by the router's DNS server to identify devices in the Home Network. The name's valence is restricted to the Home Network itself. It is advised to only choose one of the following names ".local", ".localdomain", ".domain", ".lan", ".home", ".host".

Figure 38. Home Network - IP Settings section

 **IP Settings**

IP Address	192.168.1.1
Subnet mask	255.255.255.0

Figure 39. Home Network - DHCP Settings section

 **DHCP Settings**

DHCP Server 

IP Address Pool

Start IP	192.168.1.2
End IP	192.168.1.254
Subnet mask	255.255.255.0

Domain Name *Enter name*

Lease Time *Twelve hours* 

Name Servers

192.168.1.1

Routers

192.168.1.1

Lease Time

Displays, and allows to change, how long an IP address assigned by the DHCP server will remain valid: when such time expires, the server will automatically take care of renewing the address. Available options are 1 hour, 12 hours, one day, one week or unlimited.

Dynamic DNS section (Figure 40):

Enabled

(ON/OFF slider button)

Enables (“ON”) or disables (“OFF”) the support of Dynamic DNS (DDNS). A DDNS provider maintains, upon subscription, an association between the router’s public address and a hostname in the domain name system. This allows the router and clients in the Home Network to be reachable from the Internet using URLs in that domain instead of their IP address.

Provider

(drop-down menu)

Displays, and allows to change, the name of the DDNS provider; click **ARROW DOWN** to display the list of available providers

Domain Name

Allows to specify the domain name assigned to the router by the DDNS provider

Username, Password

The username and password assigned to the router by the DDNS provider

Figure 40. Home Network – Dynamic DNS section

Dynamic DNS

Enabled

Provider

dyn.com

Domain name

Enter name

User name

Enter name

Password

Enter Password

Show password

Static Hosts section (Figure 41):

Reserve IP Address

Certain Home Network clients can be assigned with a fixed IP address, chosen in the address range defined by the value of **Start IP** and **End IP** parameters in **DHCP Settings** section.

Clicking **ARROW RIGHT** displays the “**Reserve IP Address**” view (Figure 42), which shows the list of clients for which an address reservation has been done: each entry includes the client name (if defined, or “**Unknown host**” otherwise), its MAC address and the assigned IP address.

Click “**Add New**” to enter the “**Add New Static IP**” view (Figure 43) for adding an address reservation for a new client.

In the “**Add New Static IP**” view, click the “**Select Device**” drop-down list to choose one of the devices which have been connected to the router in the past (“**Available Devices**”), identified by the IP address that was assigned to them.

Figure 41. Home Network – Static Hosts section



Figure 42. Add New – Reserve IP Address card

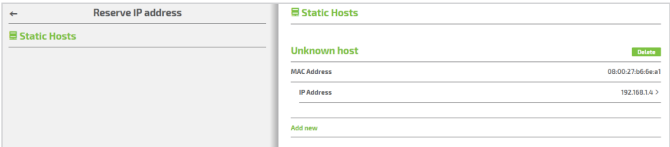


Figure 43. Static Hosts - Add New



Selecting one of such device will show a card (Figure 44) that displays the device MAC address and, using **ARROW RIGHT**, allows changing its previously assigned IP address; clicking "**Unselect**" will revert the previous view.

To make a reservation for a device which is not listed, click "**Enter MAC Address**" at the bottom of the drop-down list. A card is then displayed (Figure 45) where both the MAC address and the reserved IP address can be specified.
Click the "**Apply**" button to save modifications or exit the page to discard them.

Figure 44. Device MAC and IP addresses

CH10001 c8:5b:76:d4:a3:7b	Unselect
IP Address	192.168.1.2

Figure 45. Add New - MAC Address & IP Address

MAC Address	c8:5b:76:d4:a3:7b
IP Address	192.168.1.

■ NOTE:


When entering a MAC or IP address, the text will be shown in red, and the Apply button kept disabled (greyed) until a valid value has been specified.

Devices section (Figure 46):

The **Device** section provides a list of all Home Network devices currently connected to the router.

The **Map** tab displays the devices in a map that graphically shows the type of device and type of connection with the router. Different device types and link technologies are indicated with specific icons and line styles, respectively. The meaning of icons and line styles is shown by clicking

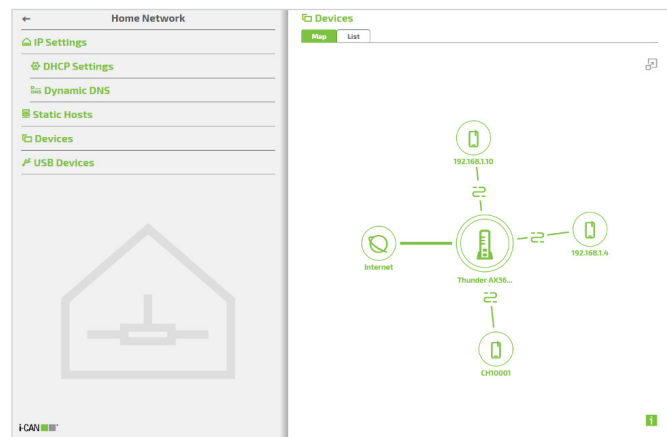


in the screen bottom right. Clicking  will display the map in full-screen mode. In full-screen mode, clicking



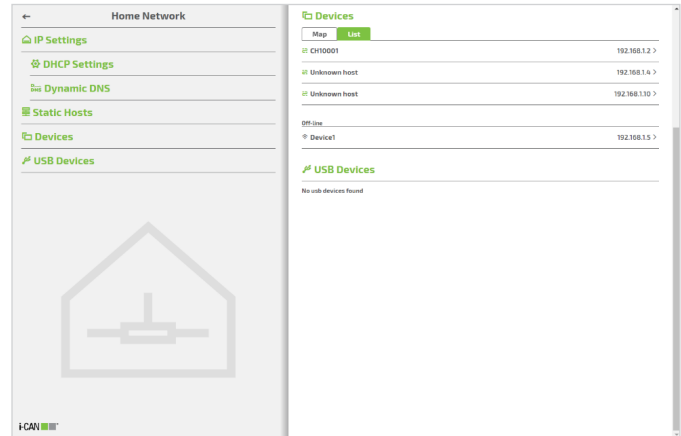
or “Home Network” **ARROW LEFT** in the screen top left will revert to the previous view.

Figure 46. Home Network – Devices section, Map tab



The **List** tab (Figure 47) displays a textual list of devices, split in a first part that shows those currently connected to the router (as done in **Map** tab) and a second part ("Off-line"), which shows devices that have been connected to the router in the past but which are currently disconnected. Each entry in the list includes the device name (if known to the router, or "**Unknown host**") otherwise) and its IP address.

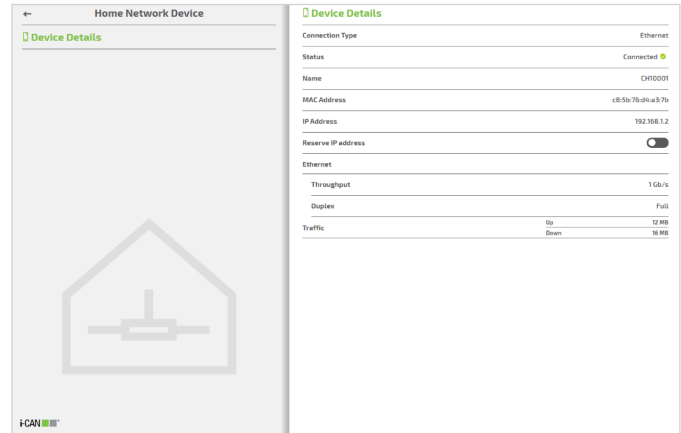
Figure 47. Home Network – Devices section, List tab



Clicking on a device icon (**Map** tab) or name (**List** tab) will open the “**Device Details**” card (Figure 48), that shows a number of device specific parameters.

The card will also allow to reserve the IP address shown for the device through the “**Reserve IP address**” ON/OFF slider button, as a shortcut to what can be done in the **Static Hosts** section using the procedure described above.

Figure 48. Device Details



USB Devices section (Figure 49):

USB devices can be connected to USB port(s) on the router.

Clicking on the icon or the name of an individual USB Device will open the tab with the Device Details (Figure 50), showing the type of connection of the device to the router, its current status, the name of the device and its capacity

Figure 49. Home Network - USB Devices section

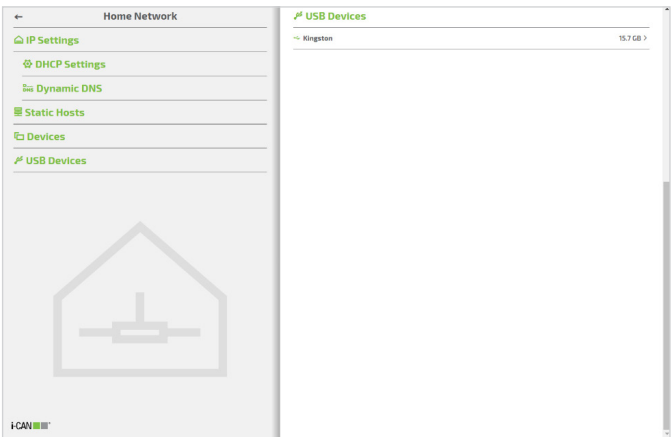
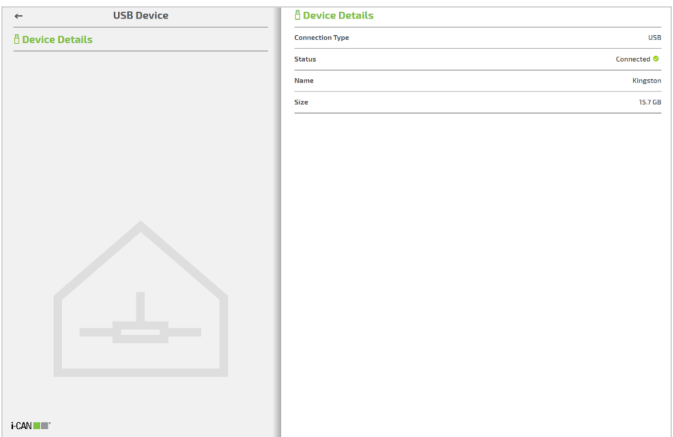


Figure 50. USB Device Details



4.6 Telephony

The **Telephony** tile in the **Home** page (see Figure 12) displays whether or not the VoIP service has been configured. If the service is configured, it can be enabled or disabled via the ON/OFF slider button.

As indicated in the tile, the VoIP service, if needed, shall be configured using the configuration **Wizard** (see Section 1). Clicking the **Telephony** tile in the **Home** page takes to the VoIP configuration section (see Figure 51).

Phone Lines section:

Enabled
(ON/OFF slider button)

Enables or disables the VoIP service, that it has been previously configured via the configuration **Wizard**.

Number

The telephone number registered for the service.

Status

The status of the VoIP line: **Up** if active, **Disabled** if not active.

Calls List:

Clicking this entry will display the list of phone calls made or received since the router was turned on and the VoIP phone line successfully registered (Figure 52).

Figure 51. VoIP page

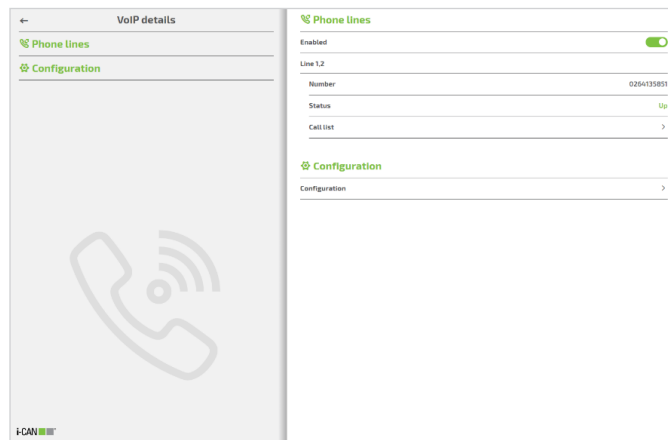


Figure 52. Call List details

← Call list	
0264135851 Delete All	
Incoming ^	
📞 3006	5.05.2021, 13:18:28
📞 3008	5.05.2021, 13:18:10
Outgoing ^	
📞 111	5.05.2021, 13:08:08

Configuration section (Figure 53):

Clicking this entry will display the list of phone lines configuration parameters, starting from number(s), line status and call status (Figure 54).

The **Telephony** configuration panel (see Figure 54) is displayed on the screen by clicking the **Configuration** menu item in VoIP configuration section.
The panel includes a number of tabs corresponding to actions that can be performed on the device or the device configuration pages.

TAB	DESIGNATION
Telephony lines	Adding and configuring telephony numbers
Voice Profile	Configuring line parameters and SIP
Service Settings	Configuring call service (call transfer, call waiting ...)
Numbering Plan	Adding/editing rules for digit manipulation
Voice Codec	Configuring voice codec list
Call control	Adding/editing rules for call routing
Call data Record	Keeping list of calls with all details
Blacklist	Configuring blacklist containing specific numbers or anonymous calls

■ WARNING:

VoIP configuration parameters depend on your VoIP provider data, to be received on VoIP service activation.

*Default values of parameters in **Telephony** sections should be left unchanged if VoIP concepts are not well understood.*

Figure 53. Configuration page

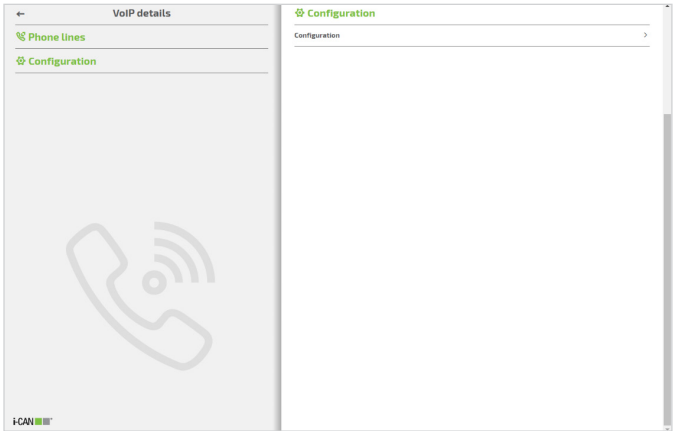


Figure 54. Telephony Configuration details



4.7 Interfaces

The **Interfaces** tile in the **Home** page (see Figure 12) shows a synthetic view about the status of router connections toward the Internet and the Home Network.

Clicking on the **DSL** tile, takes to the status page of the DSL interface (see Figure 55).

Other action on this page that allows to select may include:

- Ethernet WAN link (Figure 56)
- Ethernet LAN link (Figure 56)
- Internet (Figure 57)
- VoIP (Figure 58)
- Wi-Fi 5 GHz network (Figure 59)
- Wi-Fi 2.4 GHz network (Figure 60)

Figure 55. Interfaces – DSL status page

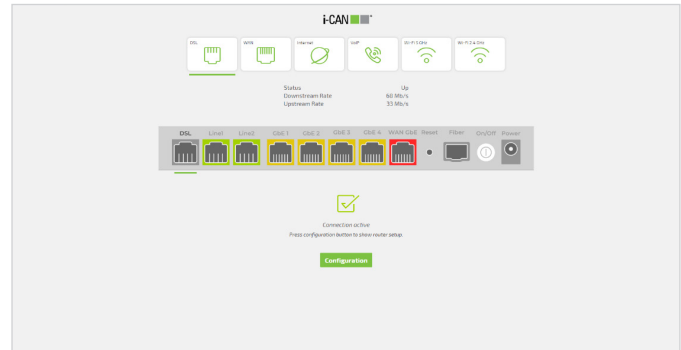


Figure 56. Interfaces - Ethernet WAN status page

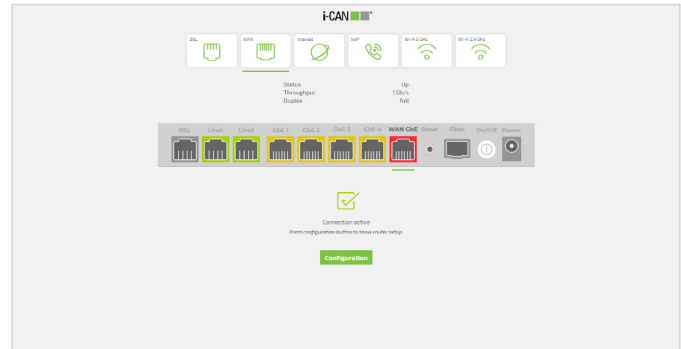


Figure 57. Interfaces – Internet status page

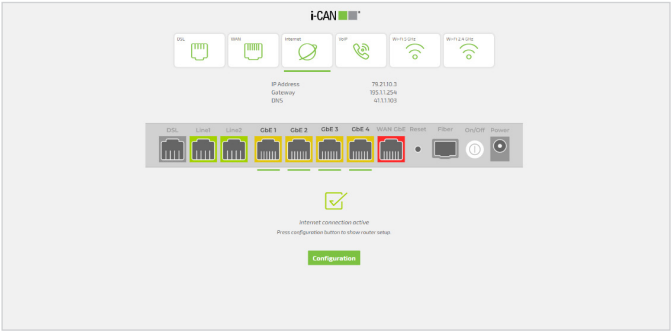


Figure 59. Interfaces – Wi-Fi (5 GHz) status page

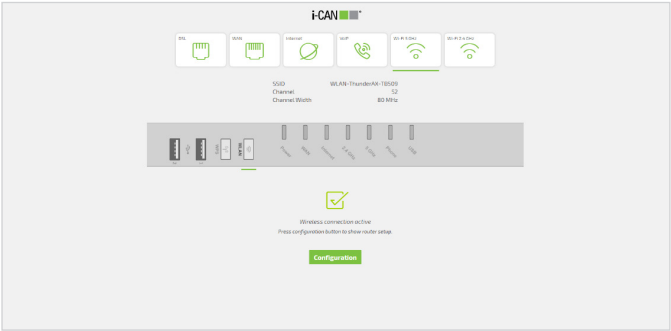


Figure 58. Interfaces – VoIP status page

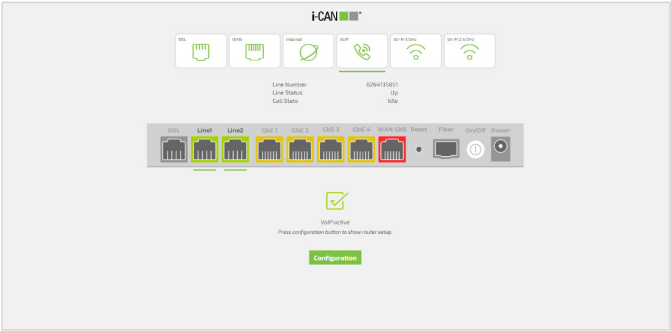
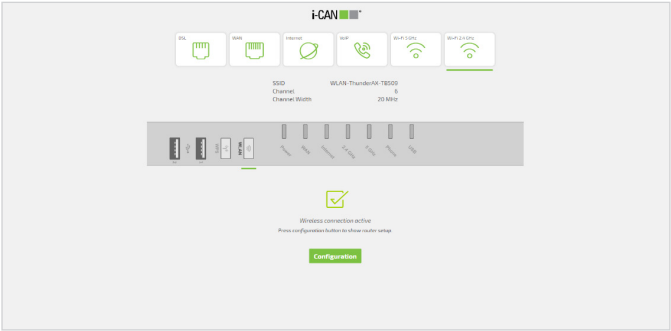


Figure 60. Interfaces – Wi-Fi (2.4 GHz) status page

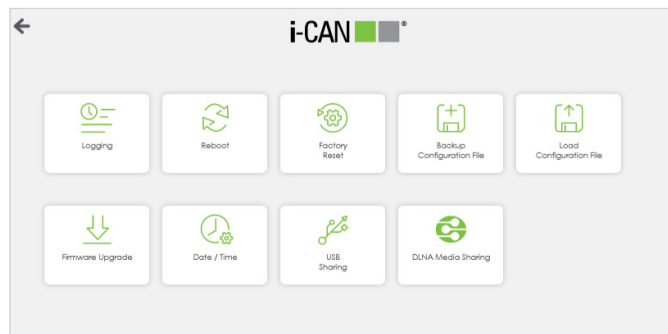


4.8 System

Clicking the **System** tile in the **Home** page (see Figure 12), takes to the page with a set of additional action tiles (Figure 61).

- Logging – review, filter and change settings for system logs collected by the device (Figure 62)
- Reboot (see Figure 63)
- Factory Reset (see Figure 64)
- Backup Configuration file (see Figure 65)
- Load Configuration (see Figure 66)
- Firmware upgrade (see 67)
- Date / Time – Network Time Setting (see Figure 68)
- DLNA Media Sharing - (see Figure 69).
- USB Sharing - configuration of USB devices (see 70).

Figure 61. System



[illegible]

A screenshot of the i-CAN interface. At the top, the text "i-CAN" is displayed next to a logo consisting of two green squares and a grey square. Below this, a green circular arrow icon is visible on the left. The main content area features a light grey dialog box with a yellow warning triangle icon on the left and a close button (X) on the right. The dialog box contains the text "Please confirm to reboot the device now." and "Delayed reboot can be optionally scheduled." Below the dialog box, the text "Scheduled Reboot:" is followed by a checkbox and the label "Click to schedule a delayed reboot". At the bottom right of the interface, there is a green button labeled "Reboot".

A screenshot of the i-CAN web interface. At the top left is a back arrow icon. The header "i-CAN" is displayed in large black font, followed by a green square and a grey square. Below the header, on the left, is a green circular icon with a gear and a refresh arrow. The main content area features a light grey dialog box with a yellow warning triangle icon on the left and a close "X" button on the right. The dialog text reads: "Do you really want to reset the configuration ?" and "Note: Restoring the defaults will erase the current configuration." Below the dialog, on the right side, is a green button labeled "Reset Configuration".

A screenshot of the i-CAN interface. At the top, there is a navigation bar with a back arrow on the left and the 'i-CAN' logo in the center. Below the navigation bar, there is a light gray box containing a dialog. The dialog has a title bar with a close button (X) on the right. Inside the dialog, there is an information icon (i) followed by the text: 'Save a copy of the current device configuration to a local file. This will enable you to restore this configuration later on.' Below this text, there is a label 'Backup the following content:' followed by two radio button options: 'Full device configuration' (which is selected) and 'User settings only'. At the bottom right of the dialog, there is a green button labeled 'Save Configuration'.

Figure 66. Load Configuration

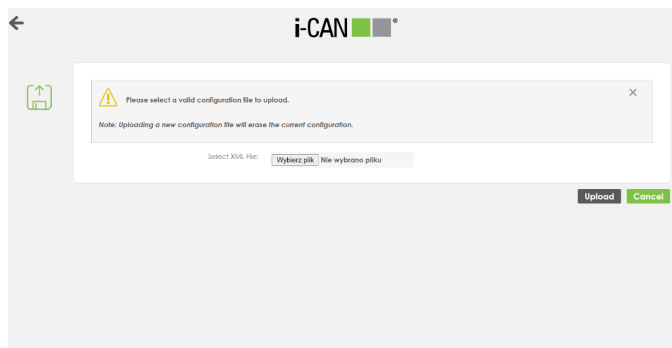


Figure 67. Firmware Upgrade

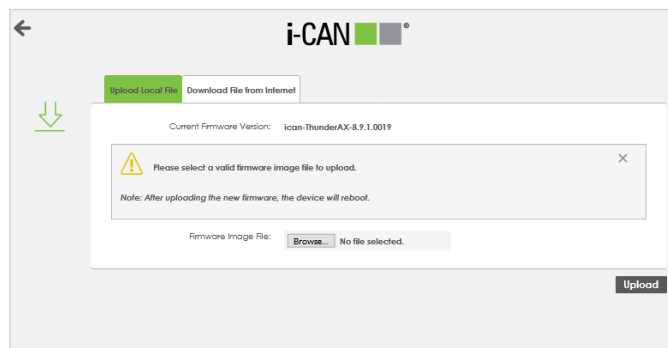


Figure 68. Date / Time

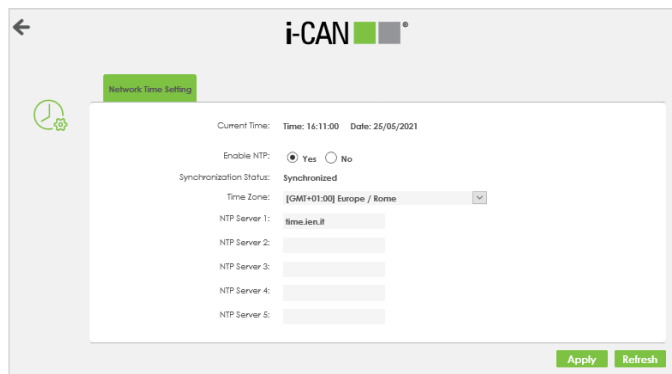
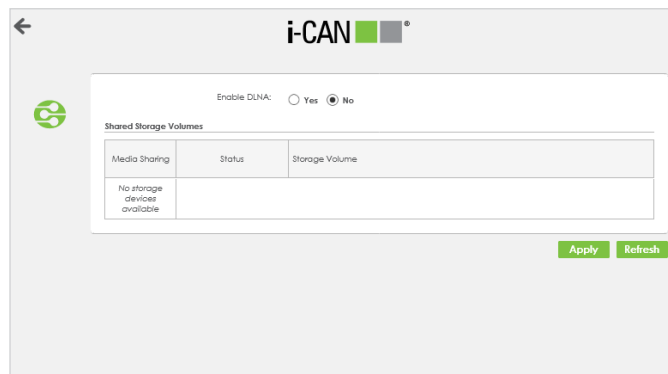


Figure 69. DLNA



USB Sharing service allows the content of one or more USB storage devices (USB memory stick, USB hard-disk) connected to the router's USB port(s) to be accessible from client devices in the Home Network.

Clicking the **USB Sharing** tile in the System page (see Figure 61), takes to the configuration section of USB devices (Figure 70).

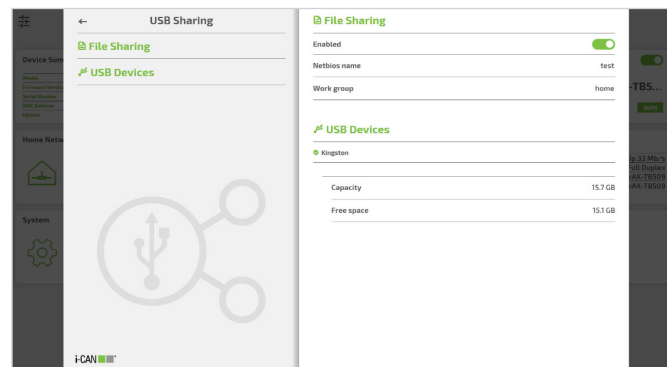
File Sharing section:

- Enabled** (ON/OFF slider button) Enables or disables File Sharing service.
- Netbios Name:** Allows to set the name of the storage device as will be seen by clients in the Home Network.
- Work Group** Allows to specify the name of the Work Group which the storage device will be assigned to; Home Network devices belonging to the same Work Group will be able to discover and access the device through Windows File Explorer or any compatible file browser in other operating systems.

USB Devices section:

Shows characteristics of each connected USB devices, including device name, overall storage capacity and free space left.

Figure 70. USB Sharing panel



4.9 Security

Clicking the **Security** tile in the **Home** page (see Figure 12), takes to the page with a set of additional action tiles (Figure 71).

- **Firewall** page (Figure 72) - changing system security settings included on two levels **Basic** and **Advanced**.
- **DMZ** (see Figure 73) – enable, disable and changing parameters for local DMZ.
- **Parental Control** (see Figure 74) – enable, disable and changing parameters for Parental control.
 - In order to start Parental control application, you might need PIN code from administrator
- **VPN** (see Figure 75) – Configure VPN Client and Server
 - VPN IPSec configuration: manual or automatic via available wizard (Remote Gateway, Road Warrior, Mikrotik, Cisco)
- **Port Mapping** (see Figure 76) – Configure router Port mapping for known or custom Applications
- **Routing QoS** (see Figure 77) - Clicking tile takes to the page with set of additional Menu:
 - Routing policy
 - Traffic Classification
 - ALG Flows
 - Policies
 - Queues

- **User** (see Figure 78) – configuration of access user password
- **Management** (see Figure 79) - Clicking tile takes to the page with a set of additional Menu:
 - UPnP
 - Telnet Server
 - SSH Server
 - Web GUI
 - Users

Figure 71. Security

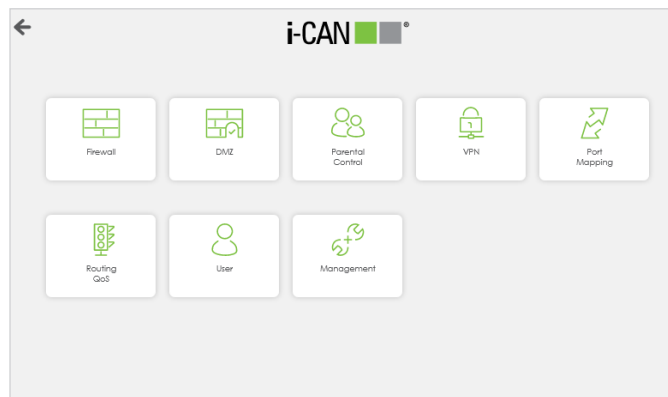
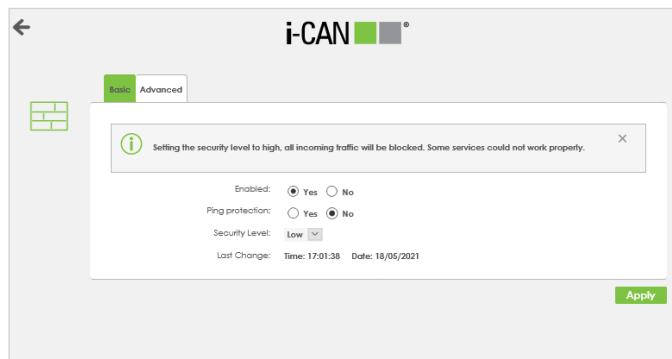
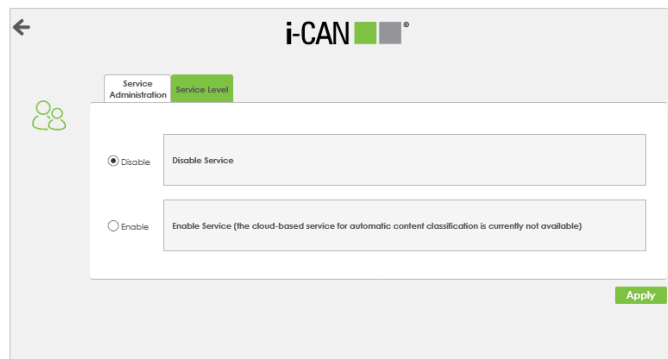


Figure 72. Firewall settings page




The screenshot shows the i-CAN Firewall settings page. At the top, there is a back arrow and the i-CAN logo. Below the logo, there are two tabs: 'Basic' (highlighted in green) and 'Advanced'. On the left side, there is a green icon representing a firewall. The main content area contains a white box with a green information icon and a message: 'Setting the security level to high, all incoming traffic will be blocked. Some services could not work properly.' Below this message, there are four settings: 'Enabled:' with radio buttons for 'Yes' (selected) and 'No'; 'Ping protection:' with radio buttons for 'Yes' and 'No' (selected); 'Security Level:' with a dropdown menu set to 'Low'; and 'Last Change:' showing 'Time: 17:01:38' and 'Date: 18/05/2021'. At the bottom right, there is a green 'Apply' button.

Figure 74. Parental Control access page



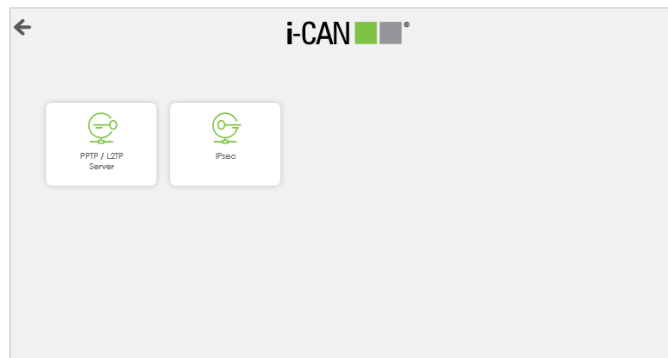
The screenshot shows the i-CAN Parental Control access page. At the top, there is a back arrow and the i-CAN logo. Below the logo, there are two tabs: 'Service Administration' and 'Service Level' (highlighted in green). On the left side, there is a green icon representing three people. The main content area contains two white boxes. The first box has a radio button for 'Disable' (selected) and a label 'Disable Service'. The second box has a radio button for 'Enable' and a label 'Enable Service (the cloud-based service for automatic content classification is currently not available)'. At the bottom right, there is a green 'Apply' button.

Figure 73. DMZ settings page



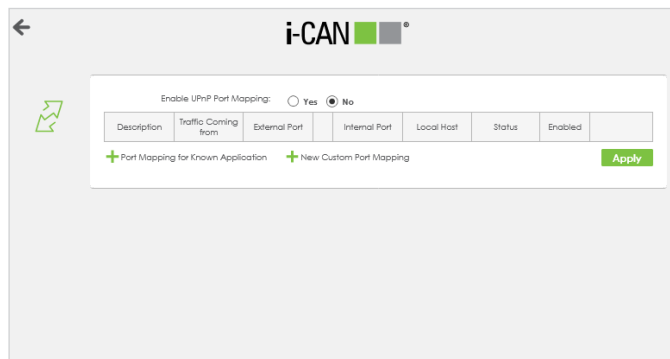
The screenshot shows the i-CAN DMZ settings page. At the top, there is a back arrow and the i-CAN logo. Below the logo, there is a green icon representing a computer. The main content area contains a white box with four settings: 'Enable DMZ:' with radio buttons for 'Yes' and 'No' (selected); 'Status:' with a dropdown menu set to 'Disabled'; 'Enable Hostpinning:' with radio buttons for 'Yes' (selected) and 'No'; and 'External Interface:' with a dropdown menu set to 'PPP - Ethernet over ATM, 8/35 (87.4.159.237)'. Below these settings, there are two more settings: 'Select Local Host by:' with a dropdown menu set to 'Host Name', and 'Host Name:' with a dropdown menu set to 'GOIMEO (192.168.1.2)'. At the bottom right, there is a green 'Apply' button.

Figure 75. VPN type selection



The screenshot shows the i-CAN VPN type selection page. At the top, there is a back arrow and the i-CAN logo. The main content area contains two white boxes. The first box has a green icon representing a VPN connection and a label 'PPTP / L2TP Server'. The second box has a green icon representing a VPN connection and a label 'IPsec'.

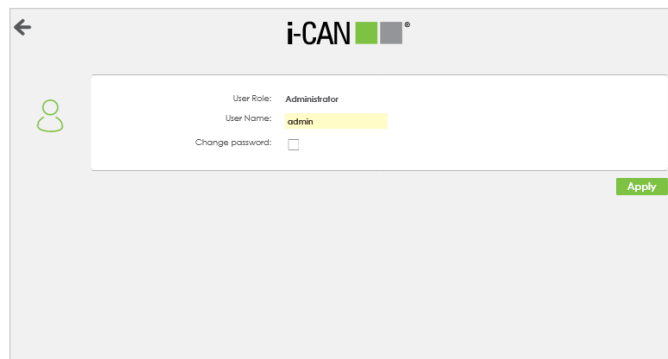
Figure 76. Port Mapping



The screen shows the 'Port Mapping' configuration interface. At the top, there is a toggle for 'Enable UPnP Port Mapping:' with 'Yes' and 'No' radio buttons, where 'No' is selected. Below this is a table with columns: Description, Traffic Coming from, External Port, Internal Port, Local Host, Status, and Enabled. There are two rows in the table, both with empty cells. Below the table, there are two green plus icons with labels: '+ Port Mapping for Known Application' and '+ New Custom Port Mapping'. An 'Apply' button is at the bottom right.

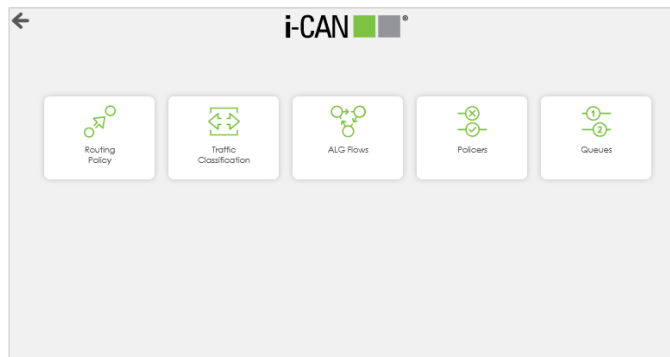
Description	Traffic Coming from	External Port	Internal Port	Local Host	Status	Enabled

Figure 78. User



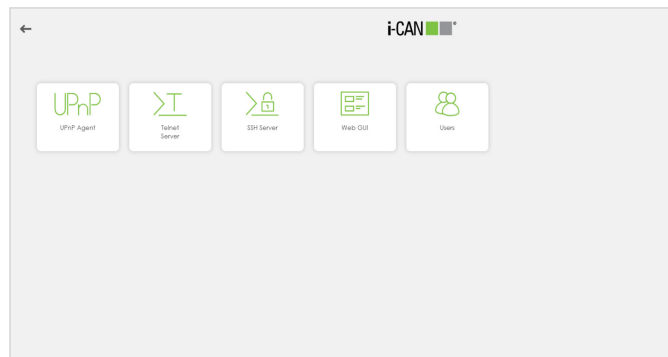
The screen shows the 'User' configuration interface. It features a user icon on the left. The configuration fields are: 'User Role:' set to 'Administrator', 'User Name:' set to 'admin' (highlighted in yellow), and 'Change password:' with an empty checkbox. An 'Apply' button is at the bottom right.

Figure 77. Routing QoS



The screen shows the 'Routing QoS' menu. It has five icons in a row, each with a label below it: 'Routing Policy' (with a router icon), 'Traffic Classification' (with a box and arrows icon), 'ALG Rows' (with a network diagram icon), 'Policies' (with a gear and cross icon), and 'Queues' (with a queue icon).

Figure 79. Management



The screen shows the 'Management' menu. It has five icons in a row, each with a label below it: 'UPnP Agent' (with 'UPnP' text), 'Telnet Server' (with a terminal icon), 'SSH Server' (with a lock icon), 'Web GUI' (with a document icon), and 'Users' (with a person icon).

4.10 Diagnostic

Clicking the **Diagnostic** tile in the **Home** page (see Figure 12), takes to a set of local diagnostic tools and information (see Figure 80):

- **Ping** tool (see Figure 81) - page allowing you to define a set of parameters to launch a ping to an IP address to be specified.
- **Download** test (see Figure 82), **Upload** test. (see Figure 83)
 - pages allowing you to launch a diagnostic tool (dow/upl) for displaying speed and state of WAN access across an Internet Protocol (IP) network.
- **Traceroute** tool. (see Figure 84) - page allowing you to launch a diagnostic tool for displaying the path and measuring transit delays of packets across an Internet Protocol (IP) network.
- **Interfaces Summary** list (see Figure 85) - page allowing you to monitor and check details about all interfaces.
- **Active Connections** list (see Figure 86) - page allowing active connections monitor. Information includes Protocols, source and destination, routing

Figure 80. Diagnostic panel

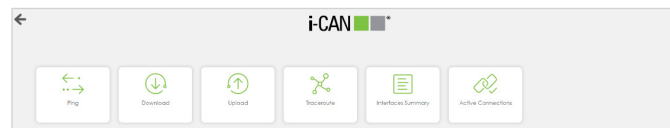
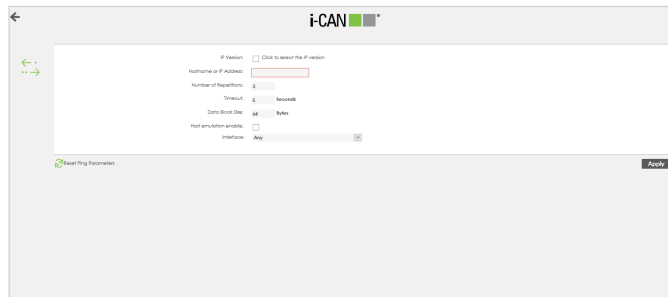
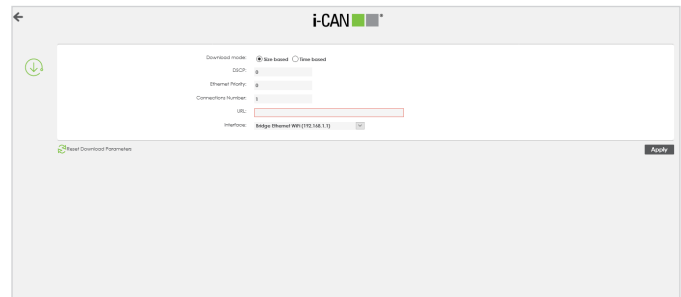


Figure 81. Ping



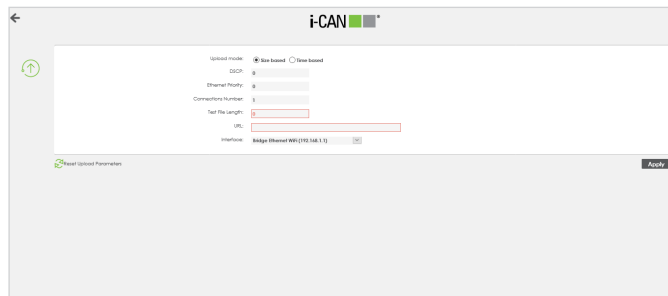
The screenshot shows the 'i-CAN' application interface for the 'Ping' function. On the left, there is a green double-headed arrow icon. The main configuration area includes a checkbox for 'Click to select the IP version' (unchecked), a text field for 'Hostname or IP Address', a numeric field for 'Number of Requests' (set to 3), a numeric field for 'Timeout' (set to 5 seconds), a dropdown for 'Data Block Size' (set to 64 bytes), a checkbox for 'Host simulation enable' (unchecked), and a dropdown for 'Interface' (set to 'Any'). At the bottom left, there is a green circular arrow icon and the text 'Reset Ping Parameters'. At the bottom right, there is an 'Apply' button.

Figure 82. Download



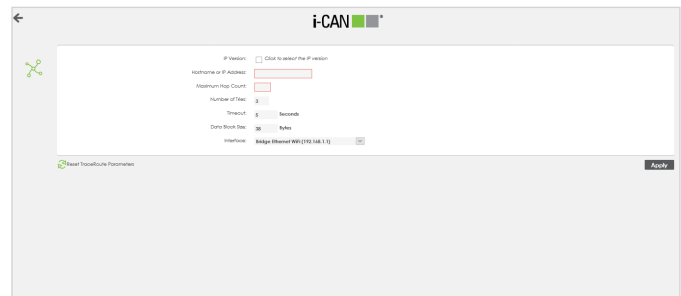
The screenshot shows the 'i-CAN' application interface for the 'Download' function. On the left, there is a green download icon. The main configuration area includes a radio button for 'Size based' (selected) and a radio button for 'Time based' (unselected). Below these are fields for 'DSCP', 'Ethernet Priority', and 'Connecting Number'. There is a text field for 'URL' and a dropdown for 'Interface' (set to 'Bridge (Ethernet 802.190.168.1.1)'). At the bottom left, there is a green circular arrow icon and the text 'Reset Download Parameters'. At the bottom right, there is an 'Apply' button.

Figure 83. Upload



The screenshot shows the 'i-CAN' application interface for the 'Upload' function. On the left, there is a green upload icon. The main configuration area includes a radio button for 'Size based' (selected) and a radio button for 'Time based' (unselected). Below these are fields for 'DSCP', 'Ethernet Priority', and 'Connections Number'. There is a text field for 'Test File Length' and a dropdown for 'Interface' (set to 'Bridge (Ethernet 802.190.168.1.1)'). At the bottom left, there is a green circular arrow icon and the text 'Reset Upload Parameters'. At the bottom right, there is an 'Apply' button.

Figure 84. Traceroute



The screenshot shows the 'i-CAN' application interface for the 'Traceroute' function. On the left, there is a green network diagram icon. The main configuration area includes a checkbox for 'Click to select the IP version' (unchecked), a text field for 'Hostname or IP Address', a numeric field for 'Maximum Hop Count' (set to 3), a numeric field for 'Number of Trac' (set to 3), a dropdown for 'Timeout' (set to 5 seconds), a dropdown for 'Data Block Size' (set to 64 bytes), and a dropdown for 'Interface' (set to 'Bridge (Ethernet 802.190.168.1.1)'). At the bottom left, there is a green circular arrow icon and the text 'Reset Traceroute Parameters'. At the bottom right, there is an 'Apply' button.

Figure 85. Interfaces Summary page

<div>  </div>													
Connection Status Summary (34 total connections)													
#	Protocol	LAN	Modem	WAN	WAN Status	Time To Live (sec.)	Transferred Bytes (Tx/Rx)	Transferred Packets (Tx/Rx)	AUG	WAN device	Routing Mode	Direction	Page
1	udp(17)	192.168.1.3.47920		239.255.255.300.37920		7	4792/0	7/0					
2	tcp(s)	192.168.1.3.59527	87.4.159.237.59527	108.177.126.189.643	ESTABLISHED	7424	2384/9106	11/20		Wizard WAN	NAT	LAN->WAN	
3	tcp(s)	192.168.1.3.59552	87.4.159.237.59552	91.230.68.71.2232	SYN_SENT	80		5/0		Wizard WAN	NAT	LAN->WAN	
4	tcp(s)	192.168.1.3.59564	87.4.159.237.59564	91.230.68.71.2232	SYN_SENT	117	208/0	4/0		Wizard WAN	NAT	LAN->WAN	
5	tcp(s)	192.168.1.3.59526	87.4.159.237.59526	13.224.95.34.443	TIME_WAIT	20	1927/7819	23/23		Wizard WAN	NAT	LAN->WAN	
6	tcp(s)	192.168.1.3.58805	87.4.159.237.58805	21.13.84.51.443	ESTABLISHED	7428	249204/3221213	2364/2403		Wizard WAN	NAT	LAN->WAN	
7	tcp(s)	192.168.1.3.58996	87.4.159.237.58996	44.74.17.180.443	ESTABLISHED	7423	180333/74261	1882/764		Wizard WAN	NAT	LAN->WAN	
8	tcp(s)	192.168.1.3.59559	87.4.159.237.59559	82.97.232.210.443	ESTABLISHED	7420	1732/4110	7/7		Wizard WAN	NAT	LAN->WAN	
9	tcp(s)	192.168.1.3.59281	87.4.159.237.59281	40.101.93.242.443	ESTABLISHED	7428	109544/221529	333/299		Wizard WAN	NAT	LAN->WAN	
10	tcp(s)	192.168.1.3.55098	87.4.159.237.55098	138.199.36.115.80	ESTABLISHED	7429	129112/137701	3165/2147		Wizard WAN	NAT	LAN->WAN	
11	tcp(s)	192.168.1.3.58348	87.4.159.237.58348	93.87.16.196.4282	ESTABLISHED	7392	15741509/3183004	50468/68894		Wizard WAN	NAT	LAN->WAN	
12	tcp(s)	192.168.1.3.58311	87.4.159.237.58311	20.54.37.44.443	ESTABLISHED	5907	4142/4565	25/21		Wizard WAN	NAT	LAN->WAN	
13	tcp(s)	192.168.1.3.59526	87.4.159.237.59526	142.250.180.142.443	TIME_WAIT	113	3797/7793	29/20		Wizard WAN	NAT	LAN->WAN	
14	tcp(s)	192.168.1.3.59564	87.4.159.237.59564	142.250.194.99.443	ESTABLISHED	7424	3124/4564	15/17		Wizard WAN	NAT	LAN->WAN	
15	tcp(s)	192.168.1.3.59565	87.4.159.237.59565	172.217.21.74.443	ESTABLISHED	7426	2990/10579	14/17		Wizard WAN	NAT	LAN->WAN	
16	tcp(s)	192.168.1.3.55645	87.4.159.237.55645	24.210.227.42.443	ESTABLISHED	7401	10292/16417	136/214		Wizard WAN	NAT	LAN->WAN	
17	tcp(s)	192.168.1.3.58322	87.4.159.237.58322	82.98.189.18.443	ESTABLISHED	7406	23090/91554	226/684		Wizard WAN	NAT	LAN->WAN	
18	udp(17)	192.168.1.3.50899	87.4.159.237.50899	47.97.126.85.3000		149	22599/21497	424/413		Wizard WAN	NAT	LAN->WAN	
19	tcp(s)	192.168.1.3.59555	87.4.159.237.59555	51.140.187.152.443	ESTABLISHED	7399	8179/7195	9/11		Wizard WAN	NAT	LAN->WAN	
20	tcp(s)	192.168.1.3.59531	87.4.159.237.59531	192.146.8.40.3128	SYN_SENT	75	1040/0	20/0		Wizard WAN	NAT	LAN->WAN	
21	tcp(s)	192.168.1.3.59537	87.4.159.237.59537	142.250.180.142.443	ESTABLISHED	7383	1732/4636	15/17		Wizard WAN	NAT	LAN->WAN	
22	tcp(s)	192.168.1.3.59558	87.4.159.237.59558	91.230.68.71.2232	SYN_SENT	105	260/0	5/0		Wizard WAN	NAT	LAN->WAN	
23	tcp(s)	192.168.1.3.59531	87.4.159.237.59531	82.114.74.43.443	ESTABLISHED	7405	3405/12417	14/16		Wizard WAN	NAT	LAN->WAN	
24	tcp(s)	192.168.1.3.59557	87.4.159.237.59557	91.230.68.71.2232	SYN_SENT	100	260/0	5/0		Wizard WAN	NAT	LAN->WAN	
25	tcp(s)	192.168.1.3.59519	87.4.159.237.59519	82.98.193.2443	TIME_WAIT	50	2734/4367	10/10		Wizard WAN	NAT	LAN->WAN	
26	tcp(s)	192.168.1.3.55609	87.4.159.237.55609	47.114.24.122.443	ESTABLISHED	7428	809121/34034	843/1433		Wizard WAN	NAT	LAN->WAN	
27	tcp(s)	192.168.1.3.58373	87.4.159.237.58373	82.113.199.14.443	ESTABLISHED	7422	67077/100135	209/441		Wizard WAN	NAT	LAN->WAN	
28	tcp(s)	192.168.1.3.59523	87.4.159.237.59523	13.224.95.84.443	TIME_WAIT	74	1887/4094	14/15		Wizard WAN	NAT	LAN->WAN	
29	tcp(s)	192.168.1.3.59536	87.4.159.237.59536	142.250.180.99.443	ESTABLISHED	7382	2270/2494	15/18		Wizard WAN	NAT	LAN->WAN	
30	tcp(s)	192.168.1.3.59556	87.4.159.237.59556	185.94.157.10.80	TIME_WAIT	81	1204/1171	6/5		Wizard WAN	NAT	LAN->WAN	
31	tcp(s)	192.168.1.3.58010	87.4.159.237.58010	172.199.21.22.80	ESTABLISHED	7428	34244/26351	411/265		Wizard WAN	NAT	LAN->WAN	
32	tcp(s)	192.168.1.3.59491	87.4.159.237.59491	82.98.193.2.443	ESTABLISHED	7426	57055/42062	108/115		Wizard WAN	NAT	LAN->WAN	
33	tcp(s)	192.168.1.3.59532	87.4.159.237.59532	82.113.194.122.443	ESTABLISHED	7404	13545/7580	17/23		Wizard WAN	NAT	LAN->WAN	
34	tcp(s)	192.168.1.3.59565	87.4.159.237.59565	82.114.159.32.443	ESTABLISHED	7349	3589/7223	11/11		Wizard WAN	NAT	LAN->WAN	
35	tcp(s)	192.168.1.3.59529	87.4.159.237.59529	82.113.199.98.443	CLOSE	6	7480/9578	35/23		Wizard WAN	NAT	LAN->WAN	
36	tcp(s)	192.168.1.3.59530	87.4.159.237.59530	216.58.205.47.443	ESTABLISHED	7392	4052/4995	18/21		Wizard WAN	NAT	LAN->WAN	

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Figure 86. Active Connections

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i-CAN®

Connection Status Summary (36 total connections)

#	Protocol	LAN	Modem	WAN	WAN Status	Time To Live (sec.)	Transferred Bytes (TX/RX)	Transferred Packets (TX/RX)	ALG	WAN device	Routing Mode	Direction	Flags
1	udp(17)	192.168.1.3:47782		239.255.255.250:3702		7	4788/0	7/0			Routing	Multicast	
2	tcp(6)	192.168.1.3:59527	87.4.159.237:59527	108.177.126.189:443	ESTABLISHED	7424	3286/8106	19/20		Wizard WAN	NAT	LAN<->WAN	
3	tcp(6)	192.168.1.3:59552	87.4.159.237:59552	91.230.58.71:2222	SYN_SENT	80	260/0	5/0		Wizard WAN	NAT	LAN<->WAN	
4	tcp(6)	192.168.1.3:59566	87.4.159.237:59566	91.230.58.71:2222	SYN_SENT	117	208/0	4/0		Wizard WAN	NAT	LAN<->WAN	
5	tcp(6)	192.168.1.3:59525	87.4.159.237:59525	13.224.95.24:443	TIME_WAIT	20	1927/7819	23/23		Wizard WAN	NAT	LAN<->WAN	
6	tcp(6)	192.168.1.3:58805	87.4.159.237:58805	31.13.86.51:443	ESTABLISHED	7428	249204/3221213	2364/3403		Wizard WAN	NAT	LAN<->WAN	
7	tcp(6)	192.168.1.3:55590	87.4.159.237:55590	64.74.17.188:443	ESTABLISHED	7423	108253/74251	1882/964		Wizard WAN	NAT	LAN<->WAN	
8	tcp(6)	192.168.1.3:59559	87.4.159.237:59559	52.97.232.210:443	ESTABLISHED	7420	1712/6110	7/7		Wizard WAN	NAT	LAN<->WAN	
9	tcp(6)	192.168.1.3:59281	87.4.159.237:59281	40.101.93.242:443	ESTABLISHED	7438	109244/221529	333/399		Wizard WAN	NAT	LAN<->WAN	
10	tcp(6)	192.168.1.3:55598	87.4.159.237:55598	138.199.36.115:80	ESTABLISHED	7439	129112/137701	3165/3167		Wizard WAN	NAT	LAN<->WAN	
11	tcp(6)	192.168.1.3:58368	87.4.159.237:58368	93.57.16.196:4282	ESTABLISHED	7392	157141509/3183004	50648/68894		Wizard WAN	NAT	LAN<->WAN	
12	tcp(6)	192.168.1.3:58311	87.4.159.237:58311	20.54.37.64:443	ESTABLISHED	5907	4142/6565	25/21		Wizard WAN	NAT	LAN<->WAN	
13	tcp(6)	192.168.1.3:59526	87.4.159.237:59526	142.250.180.142:443	TIME_WAIT	115	5797/7793	29/30		Wizard WAN	NAT	LAN<->WAN	
14	tcp(6)	192.168.1.3:59544	87.4.159.237:59544	142.250.184.99:443	ESTABLISHED	7424	3124/4856	15/17		Wizard WAN	NAT	LAN<->WAN	
15	tcp(6)	192.168.1.3:59565	87.4.159.237:59565	172.217.21.74:443	ESTABLISHED	7426	2990/10579	14/17		Wizard WAN	NAT	LAN<->WAN	
16	tcp(6)	192.168.1.3:55665	87.4.159.237:55665	34.210.227.45:443	ESTABLISHED	7401	10392/16617	136/216		Wizard WAN	NAT	LAN<->WAN	
17	tcp(6)	192.168.1.3:58322	87.4.159.237:58322	52.98.159.18:443	ESTABLISHED	7406	23090/291554	326/684		Wizard WAN	NAT	LAN<->WAN	
18	udp(17)	192.168.1.3:50899	87.4.159.237:50899	47.97.126.85:3000		169	22599/21497	434/413		Wizard WAN	NAT	LAN<->WAN	
19	tcp(6)	192.168.1.3:59555	87.4.159.237:59555	51.140.157.153:443	ESTABLISHED	7399	8179/7195	9/11		Wizard WAN	NAT	LAN<->WAN	
20	tcp(6)	192.168.1.3:59535	87.4.159.237:59535	192.168.8.48:3128	SYN_SENT	75	1040/0	20/0		Wizard WAN	NAT	LAN<->WAN	
21	tcp(6)	192.168.1.3:59537	87.4.159.237:59537	142.250.180.163:443	ESTABLISHED	7383	1732/4634	15/17		Wizard WAN	NAT	LAN<->WAN	
22	tcp(6)	192.168.1.3:59558	87.4.159.237:59558	91.230.58.71:2222	SYN_SENT	105	260/0	5/0		Wizard WAN	NAT	LAN<->WAN	
23	tcp(6)	192.168.1.3:59531	87.4.159.237:59531	52.114.74.63:443	ESTABLISHED	7405	3605/12417	14/16		Wizard WAN	NAT	LAN<->WAN	
24	tcp(6)	192.168.1.3:59557	87.4.159.237:59557	91.230.58.71:2222	SYN_SENT	100	260/0	5/0		Wizard WAN	NAT	LAN<->WAN	
25	tcp(6)	192.168.1.3:59519	87.4.159.237:59519	52.98.159.2:443	TIME_WAIT	10	2126/6367	10/10		Wizard WAN	NAT	LAN<->WAN	
26	tcp(6)	192.168.1.3:55609	87.4.159.237:55609	47.114.34.123:443	ESTABLISHED	7428	80012/136034	963/1432		Wizard WAN	NAT	LAN<->WAN	
27	tcp(6)	192.168.1.3:58373	87.4.159.237:58373	52.113.199.16:443	ESTABLISHED	7432	67077/100125	309/441		Wizard WAN	NAT	LAN<->WAN	
28	tcp(6)	192.168.1.3:59523	87.4.159.237:59523	13.224.95.84:443	TIME_WAIT	74	1587/4594	14/15		Wizard WAN	NAT	LAN<->WAN	
29	tcp(6)	192.168.1.3:59536	87.4.159.237:59536	142.250.180.99:443	ESTABLISHED	7382	2790/2494	15/18		Wizard WAN	NAT	LAN<->WAN	
30	tcp(6)	192.168.1.3:59556	87.4.159.237:59556	185.94.157.10:80	TIME_WAIT	81	1304/1171	6/5		Wizard WAN	NAT	LAN<->WAN	
31	tcp(6)	192.168.1.3:58318	87.4.159.237:58318	173.199.31.22:80	ESTABLISHED	7428	36244/28351	611/355		Wizard WAN	NAT	LAN<->WAN	
32	tcp(6)	192.168.1.3:59491	87.4.159.237:59491	52.98.159.2:443	ESTABLISHED	7426	57005/42062	108/115		Wizard WAN	NAT	LAN<->WAN	
33	tcp(6)	192.168.1.3:59532	87.4.159.237:59532	52.113.194.132:443	ESTABLISHED	7406	13565/7580	17/23		Wizard WAN	NAT	LAN<->WAN	
34	tcp(6)	192.168.1.3:59545	87.4.159.237:59545	52.114.159.33:443	ESTABLISHED	7369	3589/7223	11/11		Wizard WAN	NAT	LAN<->WAN	
35	tcp(6)	192.168.1.3:59529	87.4.159.237:59529	52.113.199.98:443	CLOSE	6	7680/9578	35/33		Wizard WAN	NAT	LAN<->WAN	
36	tcp(6)	192.168.1.3:59530	87.4.159.237:59530	216.58.205.69:443	ESTABLISHED	7392	4052/6995	18/21		Wizard WAN	NAT	LAN<->WAN	

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EU DECLARATION OF CONFORMITY

Hereby, Advanced Digital Broadcast SA declares that the radio equipment is in compliance with Directives RED 2014/53/EU, RoHS 2011/65/EU & 2015/863/EU and ErP 2009/125/EC relevant implementing measures. The full text of the EU declaration of conformity may be obtained contacting ADB at <https://www.adbglobal.com/contact/>

ENVIRONMENTAL INFORMATION

CONSUMER INFORMATION as per ErP Directive 2009/125/EC for the setting of ecodesign requirements for energy-related products
ADB products are designed and manufactured so as to assure the best environmental performance in compliance with applicable regulations. In particular, power adapters comply with (EU) 2019/1782 about no-load condition electric power consumption and average active efficiency, and the product meets (EC) No 1275/2008 & 801/2013 related to electric power consumption of electrical and electronic household and office equipment in standby, off mode and networked standby.
Find here below some important notes to further reduce the environmental impact of the product during use and for its proper disposal at end of life.

Power consumption of the product



The power consumption of the product in networked standby if all wired network ports are connected and all wireless network ports are activated is less than 12 W.

How to save energy during product use

When the product is not being used or full performance are not needed, follow below advice for saving energy consumption:



- By switching OFF the ON/OFF Button, energy use will be reduced to less than 0.1 W.
 - By unplugging the mains, energy use will be reduced to zero. It is recommended when the product is not being used for a long time.
 - By switching OFF the Wireless ON/OFF Button, energy savings can reach 30%. It is recommended when the wireless interface is not used. Turning off wireless also has a security benefit, since it calls off the risk of unauthorized access.
-

End of life disposal

INFORMATION FOR USERS as per WEEE Directive 2012/19/EU on waste electrical and electronic equipment and Directive 94/62/EC on packaging and packaging waste



The crossed-out wheeled bin symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste.
Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment, or to return it to the dealer when purchasing a new appliance.
The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment and supports the reuse and/or recycling of materials the equipment is made of.
For more information about where you can drop off your waste equipment for recycling, please contact your local city office or your household waste disposal service.
The unlawful disposal of the product by the user may entail a fine.



Waste packaging should be separated and delivered at the collection points in accordance with the local waste collection rules.



DO NOT DISPOSE OF AS HOUSEHOLD UNSORTED WASTE

FINAL REMARKS

This product must be installed and used in strict accordance with the manufacturer's instructions as described in the enclosed user documentation.

In some cases the use of wireless devices could be limited by the proprietary or representative of the building. In case of doubts about the disposals and rules regarding the use of wireless devices in specific environment (ex. airports and hospitals), it is recommended to ask the authorization before using the product.

Advanced Digital Broadcast SA is not responsible for any radio or television interference caused by unauthorized modification of this device, or the substitution or attachment of connecting cables and equipment other than specified by Advanced Digital Broadcast SA. The correction of interference caused by such unauthorized modification, substitution or attachment will be the responsibility of the user. Advanced Digital Broadcast SA and its authorized resellers or distributors are not liable for any damage or violation of government regulations that may arise from the user failing to comply with these guidelines.



Manufactured by Advanced Digital Broadcast SA
Route de Lausanne 319 CH-1293 Bellevue – Switzerland
For further information <http://adbglobal.com>