

PrismXR Puppis S1 P1411 User Guide Rev1.0 09/27/2023

Support

For more information, please visit www.prismxr.com/pages/support

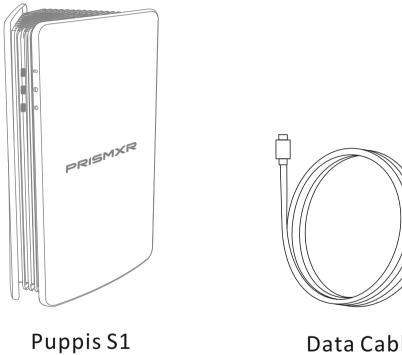
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1. What's In the Box



Data Cable

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2. Product Introduction

2.1 Product Overview

The PrismXR Puppis S1 is a specialized router designed for enhanced streaming experience between VR headsets and PCs. It utilizes 802.11AX Wi-Fi technology and a dedicated 5G band to ensure a smooth and stable connection. With the Puppis S1, you can enjoy virtual reality experiences with optimized streaming performance, reduced latency, and improved overall performance. Additionally, it supports both 2.4G Wi-Fi and PC Internet Sharing, providing flexibility in how you connect to the internet.

Puppis S1 supports three modes: PrismPulse, Wi-Fi Hotspot, and Wi-Fi Adapter.

PrismPulse Mode(default): Establish a high-speed, dedicated connection between your PC and HMD.

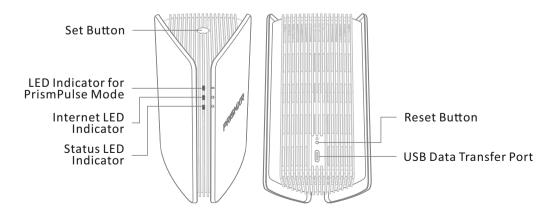
Only one HMD can be connected at a time.

Wi-Fi Hotspot Mode: Function as an access point, establishing a Local Area Network (LAN) for PCs and other wireless devices.

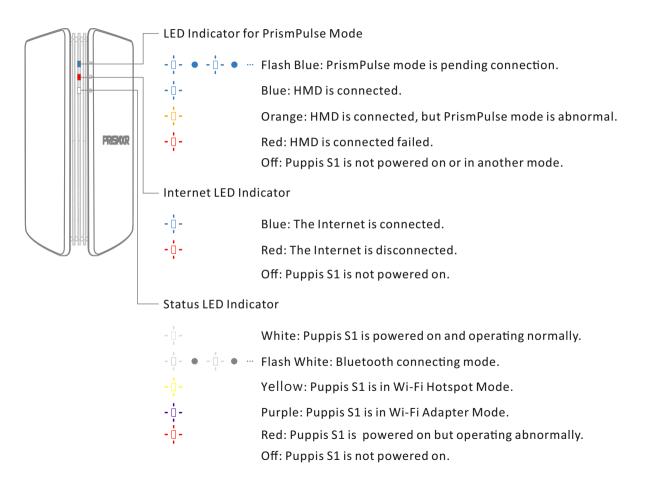
A maximum of 16 devices can be connected simultaneously, with support for 8 devices on both 2.4GHz and 5GHz hotpots.

 Wi-Fi Adapter Mode: Function as a client to enable your PC to connect to the Internet.

You can download the PrismXR App to enhance your experience, including mode switching, upload or download rate, network monitoring, Wi-Fi settings, device management, firmware updating, and more.

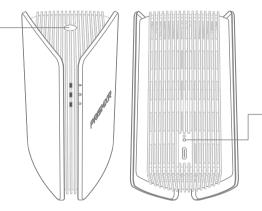


2.2 Panel Layout



Set Button

- Press once to reconnect your Puppis S1 to the PrismXR App.
- Press and hold the button for more than 3 seconds to switch modes: PrismPulse Mode > Wi-Fi Hotspot Mode > Wi-Fi Adapter Mode.
- Press and hold the button for 10 seconds to re-enter pairing mode.



Reset Button

• Press and hold the button for approximately 5 seconds until the All LED Indicators blink red five times to reset the router to its factory default settings.

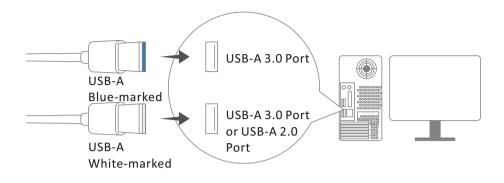
3. Set Up your Puppis S1

3.1 Connect Puppis S1 and PC

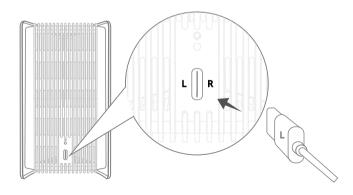
It will take about 30 seconds for the Puppis S1 to boot up.

Requirements:

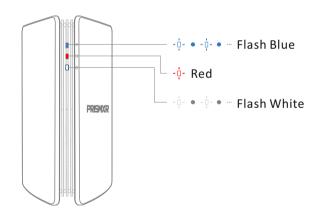
- Your PC should have two USB-A 3.0 ports, or one USB-A 3.0 port and one USB-A 2.0 port. Alternatively, you can use a USB 3.0 C-C data transfer cable (not provided).
- Please insert the provided USB cable into the corresponding ports on your PC. Plugging in the cable in reverse can result in slower data transfer speeds.
- Insert the blue-marked male USB-A into the USB-A 3.0 port on the PC, and insert the white-marked male USB-A into another USB-A 3.0 or USB-A 2.0 port on the PC.



Position the side of the male USB-C connector labeled "L" to the left, and the side labeled "R" to the right, then insert it into the Puppis S1.



- **3** The Puppis S1 will perform as follows after it has finished booting:
 - a Enter pending HMD and Bluetooth pairing mode with LED Indicator for PrismPulse Mode flashes blue and Status LED Indicator flashes White.
 - The Internet LED Indicator is red due to the device not being connected to the network.



3.2 Download PrismXR App

• Get and download the PrismXR App on the Apple App Store or Google Play.





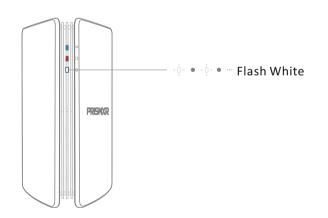
App Store and App Store logo are trademarks of Apple Inc.



Google Play and the Google Play logo are trademarks of Google LLC.

3.3 Connect to PrismXR App

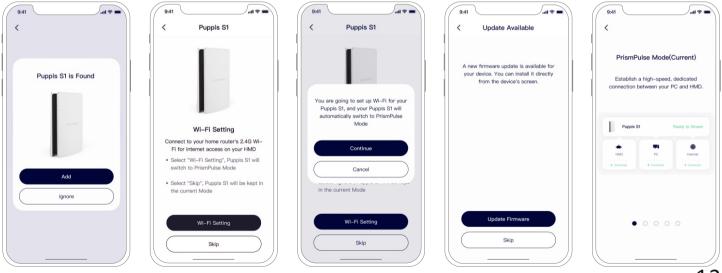
- PrismPulse mode only supports internet access under 2.4GHz networks.
- If the status LED indicator stops, press and hold the SET button for 10 seconds to enter Bluetooth pairing mode.
- Make sure your Puppis S1 is in Bluetooth pairing mode with the status LED indicator flashes white.

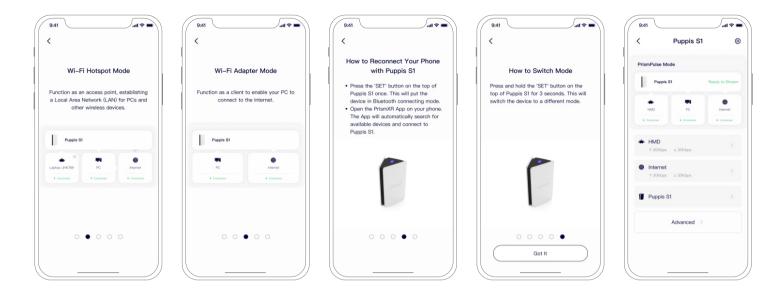


- Open the PrismXR App, there will be a pop-up notification saying "Puppis S1 is Found".
- **3** Select "Add" to add the Puppis S1 to the App.
- The App will automatically go to the device initialization process after the Puppis S1 is added.
 - On the "Wi-Fi Setting" page, click on "Wi-Fi Setting" to search and connect your Puppis S1 to a 2.4GHz Wi-Fi 4network. The Puppis S1's Internet LED indicator will turn blue.
 - After the Wi-Fi setup is completed, the app will automatically go to the "Update Available" page if there is a new firmware available.
 - When the firmware update is completed or when there is no firmware update available, the App will automatically go to the introduction of the three modes of Puppis S1, instructions

on how to re-connect Bluetooth, and instructions on how to switch modes.

- Click "Got It" or "<" in the top left corner to exit the device initialization process.
- After the device initialization is complete, you can now use your Puppis S1 in the App.

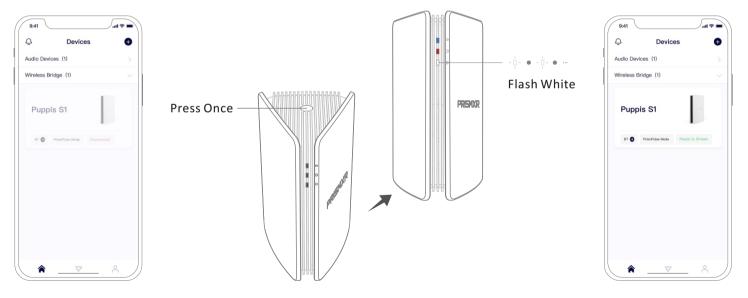




3.4 Reconnect to PrismXR App

To ensure maximum smoothness of PC VR streaming, the Bluetooth connection between the app And the Puppis S1 is not always maintained. Instead, it automatically disconnects after 30 minutes when the App is exited and running in the background. You can follow the steps below to reconnect the Puppis S1 to the App.

- Open the PrismXR App.
- Press the SET button on the Puppis S1 once, and the Puppis S1 will enter pairing mode.
- 3 Your Puppis S1 will automatically reconnect to the PrismXR App.



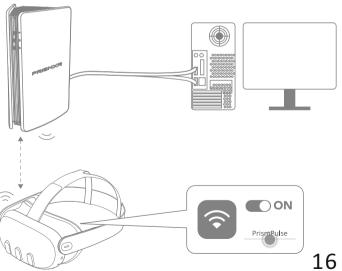
4. PrismPulse Mode (How to Stream)

4.1 Set Up Internet

- You can choose one of the following three methods to set up the Internet for Puppis S1 before streaming.
- Method 1: Connect Puppis S1 to the Internet via 2.4G Wi-Fi.
- Method 2: Connect Puppis S1 to the Internet via PC Internet Sharing. If your PC's Internet sharing is disabled, you can follow the instructions in **Section 7** to enable PC Internet Sharing.
- Method 3: Puppis S1 is not connected to the Internet. With this method, you can use the Puppis S1 for PC VR streaming, but the streaming data cannot be saved and synchronized to the cloud.

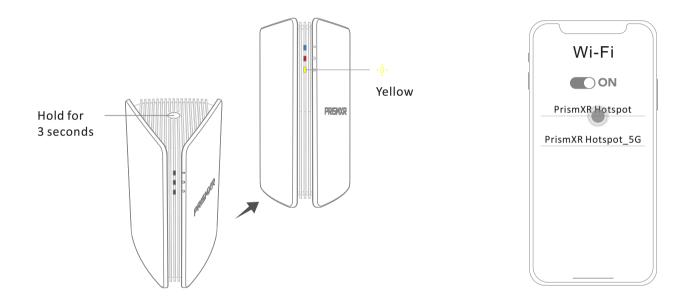
4.2 Start Streaming

- 1 Turn on your PC and VR headset.
- 2 Select "PrismPulse" in the Wi-Fi settings of your VR headset.
- 3 Depending on your VR headset, you can choose your preferred streaming method, such as Virtual Desktop(recommended), Quest Link, Pico Streaming Assistant, etc.
- **4** Follow the streaming method interface to select the operation you want to perform.
- Devices, except for the Oculus Quest series headsets, will require authorization in the app to connect to Puppis S1.



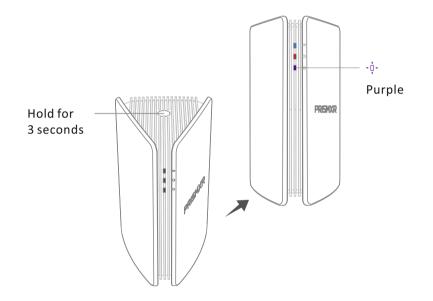
5. Wi-Fi Hotspot Mode

- If your PC's Internet sharing is disabled, you can follow the instructions in Section 7 to enable PC Internet Sharing.
- Enable PC Internet sharing.
- On the Settings page of the PrismXR App or by pressing and holding the SET button on the device for 3 seconds until the status LED indicator turns yellow (by using the SET button, depending on your current mode, you may need to press and hold the button for 3 seconds 1-2 times), which indicates that the Puppis is switched to Wi-Fi Hotspot mode.
- Select "PrismXR Hotspot" or "PrismXR Hotspot_5G" in the Wi-Fi settings of your device.
- A Now you can enjoy the hotspot to connect your device to the internet.



6. Wi-Fi Adapter Mode

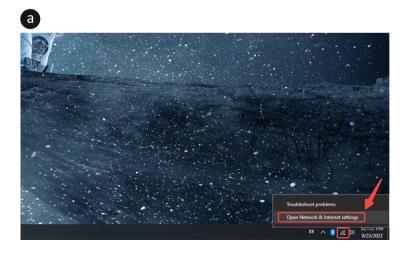
- If your PC's Internet sharing is enabled, you can follow the instructions in Section 8 to disable PC Internet Sharing.
- Disable PC Internet sharing.
- On the Settings page of the PrismXR App or by pressing and holding the SET button on the device for 3 seconds until the status LED indicator turns purple (by using the SET button, depending on your current mode, you may need to press and hold the button for 3 seconds 1-2 times), which indicates that the Puppis is switched to Wi-Fi Adapter mode.
- 3 Now you can enjoy the wireless network to connect your PC to your Puppis S1's Internet.

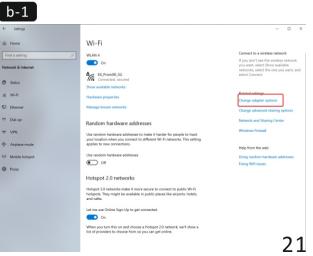


7. Set Up PC Internet Sharing

7.1 Windows 10

- Right-click the network icon (Ethernet or WiFi) and select "Open Network & Internet Settings," then click "Change Adapter Options" to access "Network Connections" settings.
 - *Alternatively, navigate to the next step via "Windows Settings" > "Network & Internet" > "Change Adapter Options".



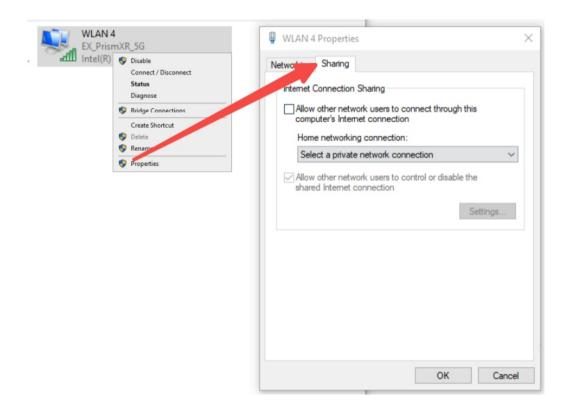


| ← Settings | | - 🗆 × |
|--|---|---|
| | Status | |
| Find a setting | Network status | Help from the web |
| Network & Internet | ⊒—∎—∰ | Updating network adapter or driver Finding my IP address |
| 🗇 Status | Ethernet 2 Private network | |
| 橋 Wi-Fi | You're connected to the Internet If you have a limited data plan, you can make this network a | |
| 12 Ethernet | in you have a limited data plan, you can make this network a metered connection or change other properties. | |
| 🕾 Dial-up | Ethernet 2 From the last 30 days | |
| er vpn | Properties Data usage | |
| 🕸 Airplane mode | WLAN 4 (Prism0R_5G) From the last 30 days | |
| ^ψ γ ^ψ Mobile hotspot | Properties Data usage | |
| Proxy | Show available networks View the connection options around you. | |
| | Advanced network settings | |
| | Change adapter options View network adapters and change connection settings. | |
| | Retwork and Sharing Center For the networks you connect to, decide what you want to share. | |
| | Network troubleshooter Diagnose and fix network problems. View hardware and connection properties | |

Identify the internet connection you wish to share with Puppis S1.
 *The Ethernet labeled "ASIX AX88179 USB3.0..." denotes the connected Puppis S1.



3 Right-click the desired network for sharing with Puppis S1, select "Properties", and navigate to the "Sharing" tab within the Properties window.



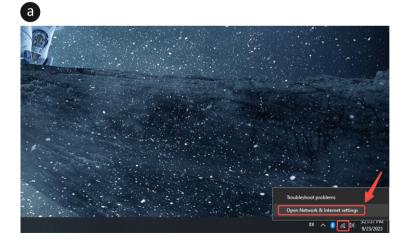
Check the first box ("Allow other network users to connect...") and then select the connection from Puppis S1, as identified in step 2.

*In some systems, options under "Home Networking Connection" may be absent. If this occurs, there's no need to select one for Puppis S1; the internet will be shared automatically.

| WLAN 4 Properties | × |
|---|---|
| Networking Sharing | |
| Internet Connection Sharing Ulow other network users to connect through this computer's Internet connection Home networking connection Select a private network connection Phemet Ethemet | |
| Settings | |
| OK Cancel | |

7.2 Windows 11

- Right-click the network icon (Ethernet or WiFi) and select "Open Network & Internet Settings". Click "Advanced network settings", then click "More network adapter options" to access "Network Connections" settings.
 - *Alternatively, navigate to the next step via "Windows Settings" > "Network & Internet" > "Advanced network settings" > "More network adapter options".



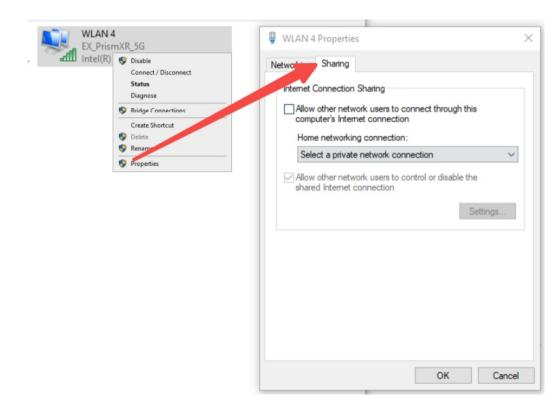
| Settings | | |
|---------------------------------------|--|-----|
| Administrator Local Account | Network & internet | |
| d a setting | Ethernet Authentication, IP and DNS settings, metered network | > |
| System Bluetooth & devices | VPN Add, connect, manage | > |
| Network & internet Personalization | (y) Mobile hotspot Share your internet connection | Off |
| Apps Accounts | Stop wireless communication | Off |
| Time & language Gaming | Proxy Proxy server for Wi-Fi and Ethernet connections | > |
| Accessibility | Dial-up Set up a dial-up internet connection | > |
| Privacy & security Windows Update | Advanced network settings View all network adapters, network reset | > |

| ← Settings | | | |
|---|---|---------|---|
| Administrator Local Account | Network & internet > Advanced network settings | | |
| Find a setting | Bluetooth Network Connection Bluetooth Device (Personal Area Network) | Disable | ~ |
| System Bluetooth & devices | WF-FI Huaseri-Guest Intel(R) WF-FI & AX201 MOMM4: | Disable | ~ |
| Network & internet Personalization | More settings | | |
| at Apps | Data usage | | > |
| Accounts Time & language | Hardware and connection properties | | > |
| Gaming Accessibility | Network reset Reset all network adapters to factory settings | | > |
| Privacy & security | Related settings | | |
| Windows Update | More network adapter options | | Ø |

Identify the internet connection you wish to share with Puppis S1.
 *The Ethernet labeled "ASIX AX88179 USB3.0..." denotes the connected Puppis S1.



3 Right-click the desired network for sharing with Puppis S1, select "Properties", and navigate to the "Sharing" tab within the Properties window.



Output: Check the first box ("Allow other network users to connect...") and then select the connection from Puppis S1, as identified in step 2.

*In some systems, options under "Home Networking Connection" may be absent. If this occurs, there's no need to select one for Puppis S1; the internet will be shared automatically.

| WLAN 4 Properties | × |
|---|---|
| Networking Sharing | |
| Internet Connection Sharing Ulow other network users to connect through this computer's Internet connection Home networking connection Select a private network connection Phemet Ethemet | |
| Settings | |
| OK Cancel | |

8. Disable PC Internet Sharing

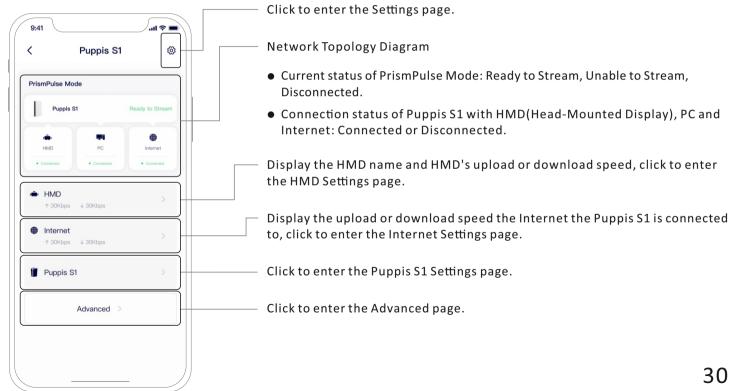
8.1 Windows

- Repeat the step from the previous section (Section 7) and navigate to the Properties of the Network for which you want to disable sharing.
- 2 Uncheck the first box ("Allow other network users to connect...").
- 3 Click "OK," and it's all set.

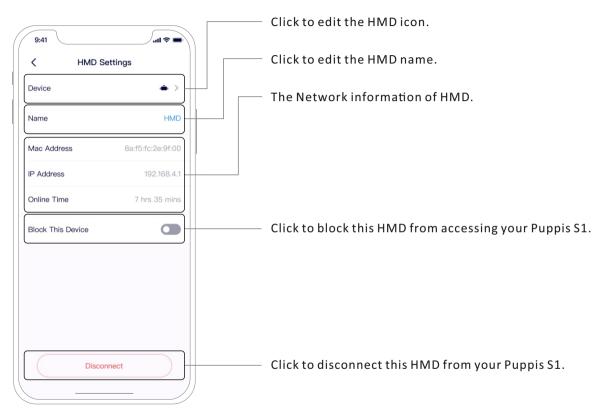
9. Using PrismXR App

9.1 PrismPulse Mode

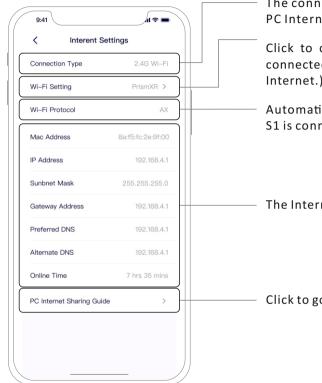
9.1.1 Details Page



9.1.2 HMD(Head-Mounted Display) Settings



9.1.3 Internet Settings



The connection status of Puppis S1 is connected to the Internet: 2.4G Wi-Fi, PC Internet Sharing, Disconnected.

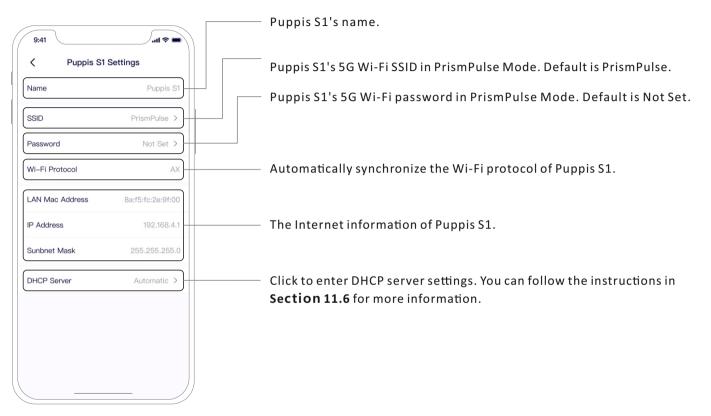
Click to configure Wi-Fi for Puppis S1. (Only available when Puppis S1 is connected to Internet via 2.4G Wi-Fi or when Puppis S1 is disconnected to Internet.) You can follow the instructions in **Section 11.5** for more information.

Automatically synchronize the Wi-Fi protocol of the current Wi-Fi the Puppis S1 is connected to.

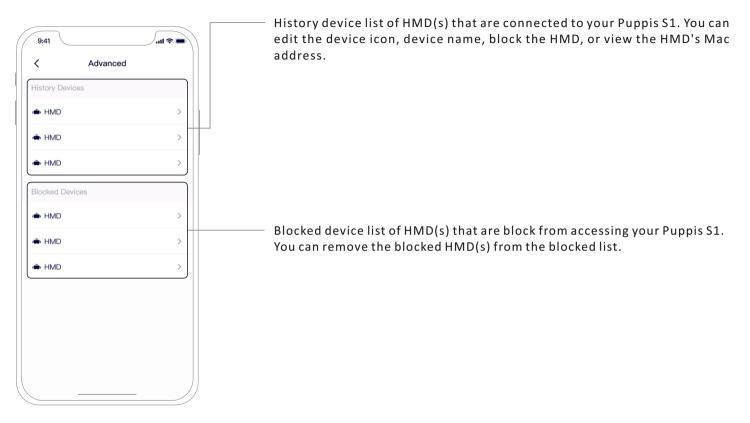
The Internet information of the PC or router the Puppis S1 is connected to.

Click to go to PC Internet Sharing Guide.

9.1.4 Puppis S1 Settings

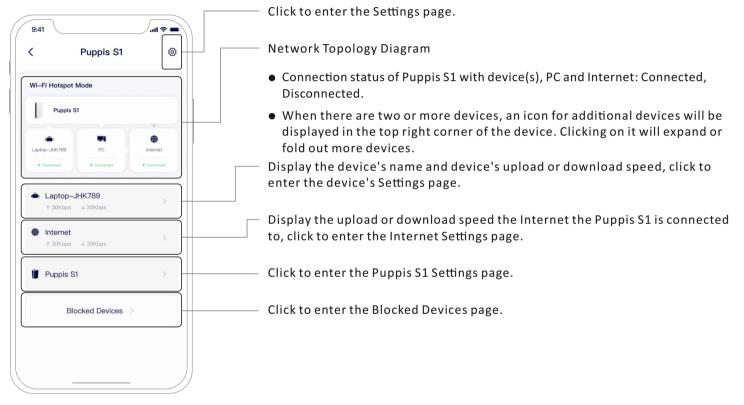


9.1.5 Advanced

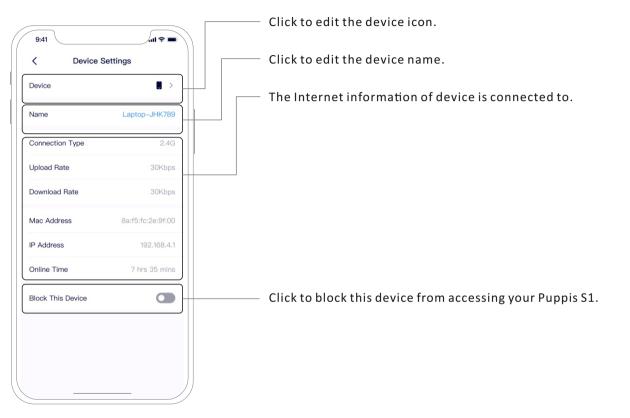


9.2 Wi-Fi Hotspot Mode

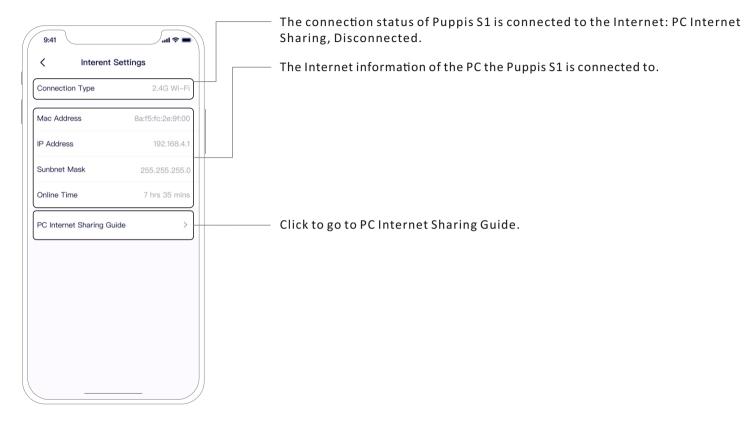
9.2.1 Details Page



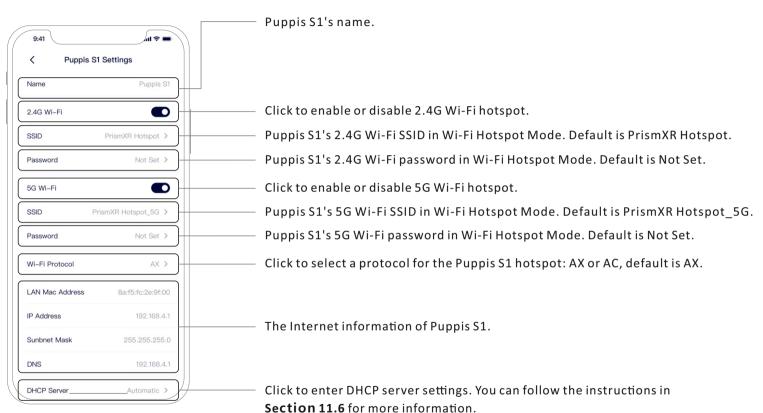
9.2.2 Device Settings



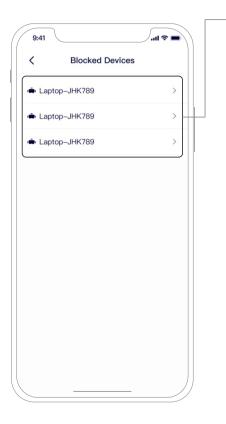
9.2.3 Internet Settings



9.2.4 Puppis S1 Settings



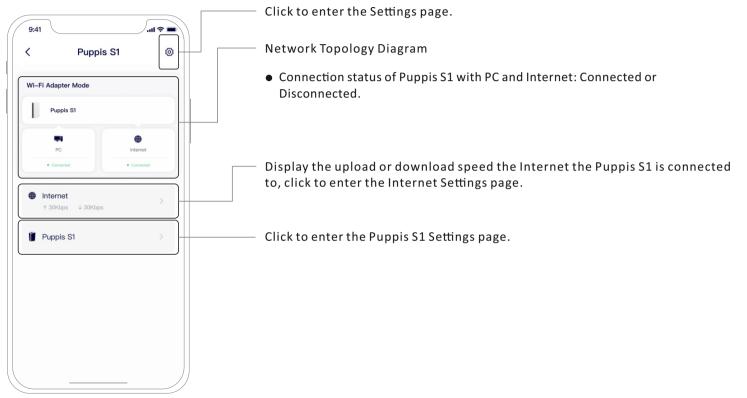
9.2.5 Blocked Devices



Blocked device list that are block from accessing your Puppis S1. You can remove the blocked device(s) from the blocked list.

9.3 Wi-Fi Adapter Mode

9.3.1 Details Page



9.3.2 Internet Settings

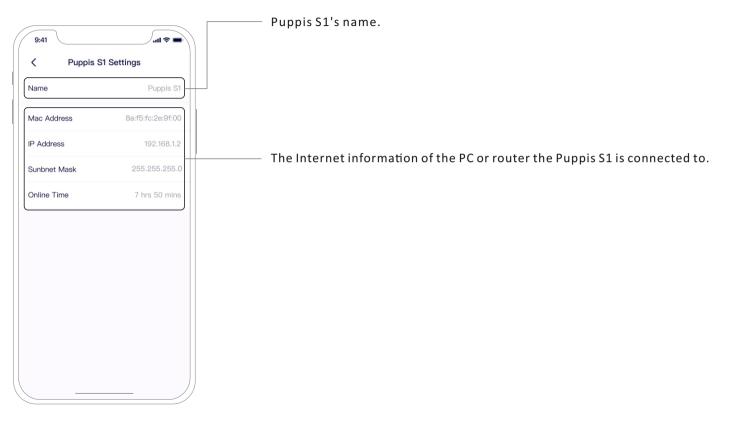


The connection status of Puppis S1, whether the Internet is: Connected, Disconnected.

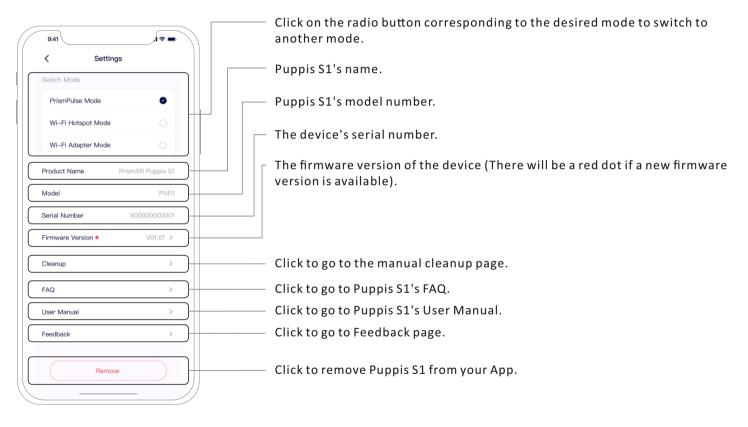
- Click to configure Wi-Fi for Puppis S1. (Only available when Puppis S1 is connected to Internet via 2.4G Wi-Fi or when Puppis S1 is disconnected to Internet.) You can follow the instructions in Section 11.5 for more information.
- Automatically synchronize the Wi-Fi protocol of the current Wi-Fi the Puppis S1 is connected to.
- The channel of the current Wi-Fi the Puppis S1 is connected to.

The Internet information of the router the Puppis S1 is connected to.

9.3.3 Puppis S1 Settings



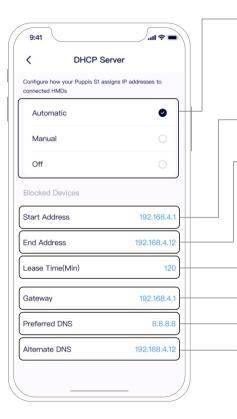
9.4 Settings



9.5 Wi-Fi Setting



9.6 DHCP Server



The DHCP Server supports three status settings: automatically, manual, off.

- Default is automatically.
- If DHCP is off, you must have another DHCP server within your network or else you must configure the computer manually.

Specify an IP address for the DHCP Server to start with when assigning IP addresses. 192.168.0.100 is the default start address.

 Specify an IP address for the DHCP Server to end with when assigning IP addresses. 192.168.0.199 is the default end address.

 The Address Lease Time is the amount of time a network user will be allowed to connect to the router with the current dynamic IP Address. When time is up, the user will be automatically assigned a new dynamic IP address. The range of the time is 1 ~ 2880 minutes. The default value is 120.

It is suggested to input the IP address of the LAN port of the router. The default value is 192.168.0.1.

Input the DNS IP address provided by your ISP.

Input the IP address of another DNS server if your ISP provides two DNS servers.

10. Maintenance

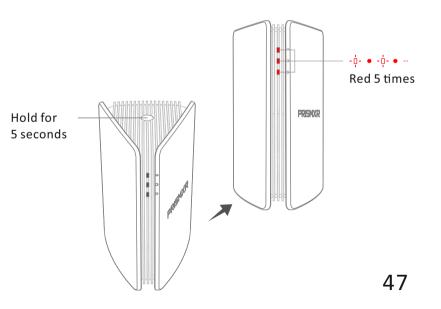
10.1 Firmware Update

To ensure our customers have the best user experience, we highly recommend you update to the newest version firmware.

- If the App shows "Update Available", click "Update Firmware" to view the updated information.
- 2 Click "Install" to download and install the new firmware.
- 3 Keep the Puppis S1 connected to both the PC and the Internet, the Puppis S1 will restart after updating is completed.

10.2 Factory Reset

- You might need to reset the Puppis S1 if you experience any connectivity problems or function issues.
- Factory reset will erase all of your settings and restore it to factory defaults. After factory reset, your device will remain in your PrismXR App.
- Press and hold the Reset button for 5 seconds until the three LED indicators flash red for 5 times.
- Puppis S1 will automatically restart after completing the factory reset.



11. Specification

WIRELESS

| Wi-Fi Standards | Wi-Fi 6IEEE | |
|-----------------|--------------------------|--|
| | 802.11 b/g/a/n/ac/ax | |
| Wi-Fi bands | 2412MHz ~ 2483.5MHz | |
| | 5150MHz ~ 5250MHz | |
| | 5250MHz ~ 5350MHz | |
| | 5470MHz ~ 5725MHz | |
| | 5725MHz ~ 5850MHz | |
| Wi-Fi Speeds | 5G: up to 2402Mbps | |
| | 2.4G: up to 576Mbps | |
| Features | MIMO, Beamforming, OFDMA | |
| BLE | 5.1 (For Moblie App) | |

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| Authorization | Wireless device authorized by App | |
|---------------------|---|----|
| | (only applicable for PrismPulse Mode) | |
| Blacklists | Support | |
| DHCP | DHCP Client | |
| | DHCP Server | |
| PrismXR App | Mode Setting, Network Monitor, Wireless Setting | |
| OTHERS | | |
| System Requirements | Windows 11/10 | |
| Certifications | FCC | |
| Certifications | Operating Temperature: 0°C~40°C (32°F ~104°F) | |
| | Storage Temperature: -40°C~70°C (-40°F ~158°F) | |
| | Operating Humidity: 10%~90% non-condensing | |
| | Storage Humidity: 5%~90% non-condensing | |
| PHYSICAL | | |
| Dimensions (W×D×H) | 57.1 × 35.4 × 31.7 in (145 x 90 x 80.45mm) | 50 |

12. Safety Instruction

The following basic guidelines are recommended when unpacking, installation, use, and maintenance of your electronic device.

- Do not use or install this product near water, to avoid fire or shock hazard. For example, near a bathtub, kitchen sink or laundry tub, or near a swimming pool. Also, do not expose the equipment to RAIN or MOISTURE areas (e.g. a wet basement).
- To safeguard the equipment against overheating, make sure that all openings in the unit that offer exposure to air are not blocked.
- Do not push any objects into the openings of your product. Doing so can cause fire or electric shock by shorting out interior components.
- Keep the product away from radiators and heat sources.
- Do not spill food or liquids on your product components.51

- If your product uses a power adapter:
 - Make sure the USB adapter must meet the voltage and current marked on the product electrical ratings label.
 - Make sure that the ampere rating limit of the USB cable meet be fulfilled for the product.

13. Warranty

If you have any difficulties using your PrismXR Puppis S1, please contact us

Email: customerservice@prismxr.io

PRISMXR PTE LTD 60 PAYA LEBAR ROAD #12-03 PAYA LEBAR SQUARE 409051

Warranty 18 months Limited Electrical Warranty

PrismXR warrants to the original residential user of this product that it will be free from defects in materials and workmanship, under normal use, for 18 months from the date of purchase. User must provide a copy of original purchase receipt. This warranty does not cover abuse or misused products or products used in commercial applications. This warranty does not apply to PrismXR Puppis S1 that have been improperly installed, modified, put to a use other than designed, or subjected to acts of God (such as floods, lightning, earthquakes, etc.). This warranty is limited to repair or replacement of the PrismXR Puppis S1 only at PrismXR's sole discretion. PrismXR will NOT be liable for the cost of installing, removing, nor reinstalling this product, nor direct, indirect, or consequential damages to persons or property resulting from the use of this product. This warranty only covers the cost of replacement parts or replacement units, it does not cover shipping & handling fees.

To implement this warranty, please visit www.prismxr.com/pages/support

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14. FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- (1) Reorient or relocate the receiving antenna.
- (2) Increase the separation between the equipment and receiver.
- (3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- (4) Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

The following importer is the responsible party. Company Name: PRISMXR PTE, LTD Address: 60 PAYA LEBAR ROAD #12-03 PAYA LEBAR SQUARE SINGAPORE, 409051