

ZuniDigital

Portable Wireless Router
Wireless Extender/Bridge
Private WiFi Extender

User's Guide

ZR301

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Introduction

Congratulations on your purchase of the ZuniConnect ZR301 Wireless Router. Before installing and using this innovative product, please read this user's guide thoroughly, and retain it for future use. This user's guide will explain how to setup and use the router.

Retail Package Contents

ZuniConnect ZR301 Router
Power Adapter
Ethernet Cable
Quick Start Guide

Safety Information

The ZR301 is for indoor use and in dry locations only. To decrease the risk of electrical shock, unplug the router and allow it to cool before cleaning.

Product Overview

This sleek yet powerful unit lets you create a secure wireless network whenever a wired Broadband connection is available. You can switch modes and use the ZR301 to extend an existing WiFi signal, or you can again change modes and create a Wireless Bridge/Extender.

Convenient & Easy-to-Use High Speed Wireless Routing

This high-speed wireless router allows Internet ready devices a convenient way to connect to and share a wired Broadband connection. This is especially convenient for smartphones, tablet PC's, and e-reader users since most of these products lack a traditional RJ-45 Ethernet port needed to plug in a network cable. Utilizing patent pending Intelli+IP technology, this device easily creates a reliable and secure wireless network from a wired Broadband connection. Once established, users can connect multiple devices to a personal Wi-Fi Hotspot, which is useful for tradeshow, hotel rooms, or anywhere multiple users need to share an Internet connection.

Features

- **Intelli+IP Sensing Technology** – Patent pending technology that detects the main network's IP address, and if there is a network conflict, the Intelli+IP sensing technology will automatically change the ZR301 router's IP address to resolve the issue.
- **Fast & Secure Network Connectivity** – 802.11N wireless technology offers data transfer rates up to 300 Mbps and WPA / WPA2 / WEP data encryptions with dual-active firewalls provide a safe and secure network connection.
- **Sleek Efficient Design** – Small and lightweight, this router can be placed anywhere and does not take up space. When used as an extender, the ZR201 can be placed out of sight and operates with multiple power options. Our router uses USB power cords such that power can be supplied from any device with a USB port.
- **Fast & Easy Setup** – Web Browser based Setup Wizard makes router setup fast and easy
- **Ultra Compact Size** – Measures just 2.2 x 1.7 x 0.6 inches and weighs less than 2 oz
- **Intelli+IP Sensing Technology**– Patent pending Intelli+IP sensing technology that detects the main network's IP address, and if there is a network conflict, automatically changes the router's IP address to resolve the conflict
- **MIMO 3-D Antenna Technology** – This wireless router utilizes a Multiple Input / Multiple Output antenna array that broadcasts the Wi-Fi signal in a 360 spherical pattern, which greatly increases wireless coverage and network throughput to dead zones
- **High-Speed Wireless Networking** – This 2T2R router provides wireless data transfer speeds up-to 300 Mbps
- **Flexi-Power Supply** – Because of its low power consumption, the ZuniConnect Router is able to be powered from any 5v USB port, or with the included AC-to-USB power adapter capabilities.
- **IPv6 Compatible** – Access next generation internet services
- **WPS 2.0** – 2nd generation WiFi protected setup

Setup Instructions

ROUTER MODE

For this mode the ZuniDigital ZR301 uses a wired Broadband connection as the WAN (Internet) connection, to create a new sub-network that can then be shared via Wi-Fi and the LAN port.

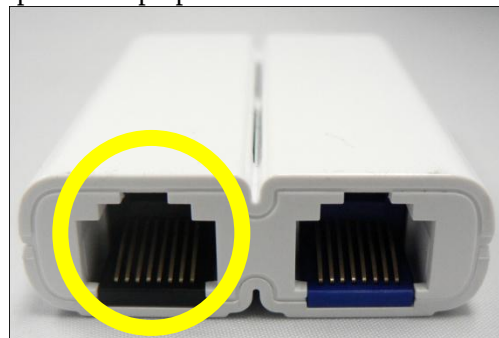


For the best results do not place the ZR301 near any large metal objects or magnets (like those found in speakers). Also note that elevating the router from the floor will increase wireless broadcast signal performance and range.

ONCE YOU SELECT ROUTER MODE FROM THE SETUP HOMEPAGE

Step 1 - Attach LAN (Ethernet) Cable

Attach one side of an RJ-45 Ethernet cable into the LAN (Ethernet) port of the ZR301 Router, and then connect the other end to the Ethernet port on your computer or laptop.



LAN

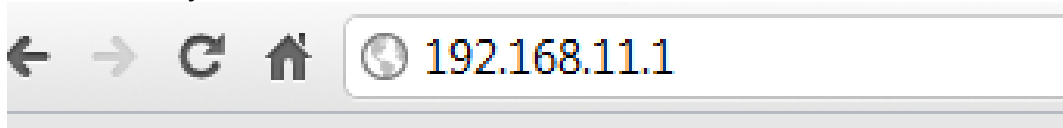
Step 2 - Attach Power Cable

If you are using the AC adapter, plug it into a wall socket and plug the power tip into the ZR301's 5v power port. If you are using a USB cable, you can provide power to the router from any electronic device with a USB port (device must be on to power the router). Please wait 30 seconds for the router to fully boot up before continuing to the next step.



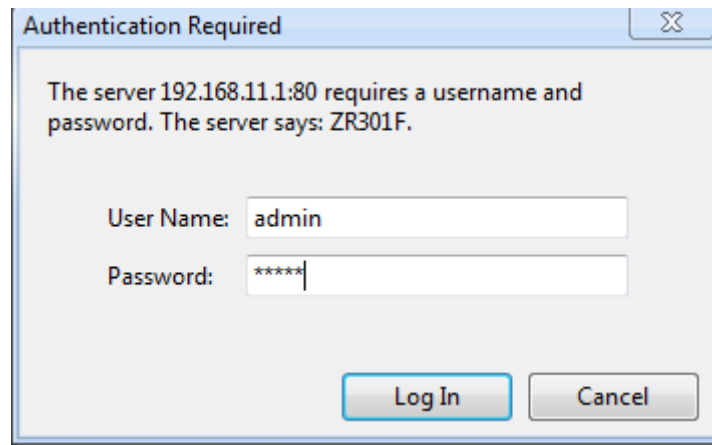
Step 3 - Access Web Configuration

From your computer, open a Web browser (Internet Explorer, Firefox, Safari, etc.) then type 192.168.11.1 into the address bar and press the "ENTER" key.



Step 4 - Setup Login

In the login window key in the default User Name (**admin**) / Password (**admin**) and click the LogIn button.



Step 5 – Enter the Setup Wizard

Click the “Run Setup Wizard” button on the ZR301F router’s main page, or from the navigation menu on the left side of the web interface.

ZR301F Wireless Set Up (Router Mode)

Powered by ZuniConnect™ Technology

Router Management - Current Status

To configure you router click the "Run Setup Wizard" button below.

Run
Setup Wizard

Please note that each time you move the ZuniConnect Router to a new location it may need to be reconfigured for use with the new location's network.

Step 6 - Begin the Setup Wizard

To begin the Setup Wizard click the “Next” button. If you wish to exit the Setup Wizard click the “Cancel” button.

ZR301F Wireless Set Up (Router Mode)

Powered by ZuniConnect™ Technology

Setup Progress

Step 1: Welcome Screen	Step 2: Configure LAN	Step 3: Configure WAN	Step 4: Basic Wi-Fi Settings	Step 5: Apply Wi-Fi Security
------------------------	-----------------------	-----------------------	------------------------------	------------------------------

Setup Wizard - Welcome to the Setup Wizard

This setup wizard will guide you through the configuration of the Router Mode. Click the "Next" button to begin the process.

Cancel Next>>

Step 7 - Configure LAN (Ethernet) Parameters

The pre-entered default values should work for most networks, but if they need to be modified you can do so now. Unless you are an advanced user we recommend that you use these default settings when creating your Local Area Network (LAN), because changing the default values listed may interfere with the router's operation. Once the values are correctly entered, press the “Next” button.

ZR301F Wireless Set Up (Router Mode)

Powered by ZuniConnect™ Technology

Setup Progress

Step 1: Complete	Step 2: Configure LAN	Step 3: Configure WAN	Step 4: Basic Wi-Fi Settings	Step 5: Apply Wi-Fi Security
------------------	-----------------------	-----------------------	------------------------------	------------------------------

Setup Wizard - Local Area Network (Ethernet Connection) Setup

You can modify these values, but we recommend that you use these default settings when creating your Local Area Network (LAN). Once you have decided which LAN values to use, click the "Next" button.

Router IP Address: 192.168.11.1
Subnet Mask: 255.255.255.0
Intelli-IP Address Diversion: Enabled

Changing the default values listed above may interfere with the router's operation.

Cancel <<Back Next>>

Help Section

Router IP Address
The IP address refers to the "network address" of the router so that you can identify the device. The default value is 192.168.11.1

Subnet Mask
The Subnet Mask used by the router. The default value is 255.255.255.0

Intelli-IP Address Diversion
Patent pending technology that detects the main network's IP address, and if there is a network conflict, the Intelli-IP sensing technology will automatically change the router's IP address to resolve the issue. By default this function is Enabled, and will automatically be applied by the ZuniConnect Router upon completion of the Setup Wizard.

Step 8 - Configure WAN (Internet) Parameters

This step lets you configure the router to utilize the broadband signal provided by the Internet provider. The majority of providers use DHCP which is the default setting of the ZuniDigital ZR301. This setting should work in most locations, but if you have any questions on which settings to use, please contact your Internet Service Provider or your local network administrator.

ZR301F Wireless Set Up (Router Mode)

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Setup Progress

Step 1: CompleteStep 2: CompleteStep 3: Configure WANStep 4: Basic Wi-Fi SettingsStep 5: Apply Wi-Fi Security

Setup Wizard - Wide Area Network (Internet Connection) Setup

Select the Internet (WAN) Access Type used by the Broadband provider you are connecting with and then click the "Next" button.

Internet (WAN) Access Type: DHCP Client

Broadband providers sometimes use different Access Type protocols such as DHCP (Dynamic), PPPoE, or Static IP. Using DHCP Client should work in most locations, but if you have any questions on which value to use, please contact the Internet Service Provider or the local network administrator.

Cancel

<<Back

Next>>

Help Section

Internet (WAN) Access Type

DHCP Client: The IP Address assigned by your Internet Service Provider is not fixed, and will be automatically updated when necessary.
Static IP: The IP Address assigned by your Internet Service Provider is fixed and will not change.
PPPoE: Some Internet Service Providers require this type of connection, which requires a User Name and Password, in order to access the Internet.

Step 9 - Configure Basic Wi-Fi Settings

Use this page to personalize the name of the wireless network (SSID) to be broadcast by the ZuniDigital ZR301. This name will be broadcast so that your WiFi devices can log onto your network. If desired, changes can be made to these settings, but it is recommended that only experienced users do so. Otherwise it is recommended that you do not make any changes to default values that are listed.

ZR301F Wireless Set Up (Router Mode)

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Setup Progress

Step 1: CompleteStep 2: CompleteStep 3: CompleteStep 4: Basic Wi-Fi SettingsStep 5: Apply Wi-Fi Security

Setup Wizard - Wireless Network (Basic Settings)

Use this page to personalize the ZuniConnect Router. Once you have decided which settings to use, click the "Next" button.

☐ Disable Wireless LAN

Network Broadcast Band: 2.4 GHz (B+G+N)

Wireless Network Name (SSID): ZuniConnect (27 Characters Max)

Channel Width: 40MHz

ControlSideband: Upper

Channel Number: Auto

For personalization we recommend that you rename the Wireless Network Name (SSID), but leave the other factory default values in tact.

Cancel

<<Back

Next>>

Help Section

Disable Wireless LAN

Checking this box and clicking the "Next" button will apply the changes will disable (turn off) the wireless broadcast radio. If the wireless LAN has been disabled, wireless stations will not be able to access the Internet. To restore the wireless LAN, clear the check box and click the "Back" button.

Network Broadcast Band

This determines which Broadcast Band will be used to transmit the wireless signal.

Wireless Network Name (SSID)

The broadcast name of the router's wireless network.

Channel Width

There are two channel widths that can be used to broadcast with (20MHz and 40MHz). Using the 40MHz channel width allows more broadcast options.

Channel Number

This determines which operating channel will be used to broadcast the wireless signal. Using the default (auto) channel option should work in most cases, and you should only have to modify this field if you experience interference from another wireless access point.

Step 10 - Apply Wi-Fi Network Security Settings

By default, the ZuniDigital ZR301 broadcasts as an OPEN network with no data encryption. If you wish to enable network encryption to help secure your network, please select the encryption type you want to use, establish a password that you can remember, and then click the “**Finished**” button. This will finalize the settings for your ZR301 and you may begin using it as a wireless router.

ZR301F Wireless Set Up (Router Mode)

Powered by ZuniConnect™ Technology

Setup Progress

Step 1: Complete	Step 2: Complete	Step 3: Complete	Step 4: Complete	Step 5: Apply Wi-Fi Security
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Setup Wizard - Wireless Network (Security Settings)

By default, the ZuniConnect Router broadcasts as an OPEN network with no data encryption. If you wish to enable data encryption select the network encryption type you want to use, and establish a password for your wireless network. Once you have decided which settings to use, click the “**Finished**” button.

Encryption:

Pre-Shared Key Format:

Pre-Shared Key: (Minimum of 8 Characters)

Help Section

Wireless Security Options

- Disable: No Data Encryption
- WEP: Wired Equivalent Privacy (WEP 64 or 128-bit data encryption)
- WPA-PSK (TKIP): WPA-PSK standard encryption method with TKIP encryption type
- WPA2-PSK (AES): WPA2-PSK standard encryption method with AES encryption type
- WPA2-Mixed: Allow clients using either WPA-PSK (TKIP) or WPA2-PSK (AES) encryption

For optimal performance with 11N wireless network adapters, change your network's security option to WPA2-PSK (AES).

Pre-Shared Key Format

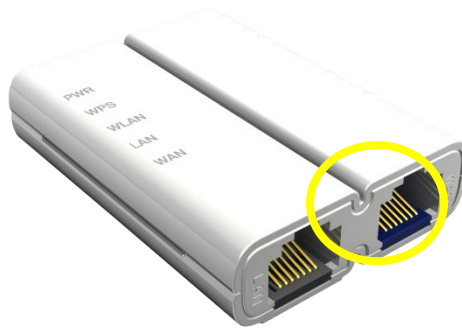
Choose between using a Passphrase or Hex type.

Pre-Shared Encryption Key

The actual Pass Key or Password used to access the wireless network.

Step 11 - Using the ZR301 Router

Attach the Ethernet cable that provides your Internet connection into the WAN (Internet) port, then power the ZR301 router ON and wait for it to fully boot. The router will broadcast the SSID setup in step 9 and now you can connect wireless devices to the ZR301.



RESTORE FACTORY DEFAULT SETTINGS

Should you at any time wish to restore the factory default settings press and hold the “Reset” button on the bottom of the ZR301 Router for 10 seconds, then release. The router will re-boot and all of the original factory settings will be restored. You can then change the settings as you see fit. Also, you can use the reboot process if you forget your password and wish to set up a new one.

WIRELESS EXTENDER / WIRELESS BRIDGE MODE

Wireless Bridge / Extender Information

In this mode, the ZR301 can connect to an existing wireless network and then convert the wireless network signal into a signal that can be sent over wire (CAT-5). This unit also acts as a wireless extender to extend the range of an existing wireless router's signal to reach areas that are not covered by the existing router.

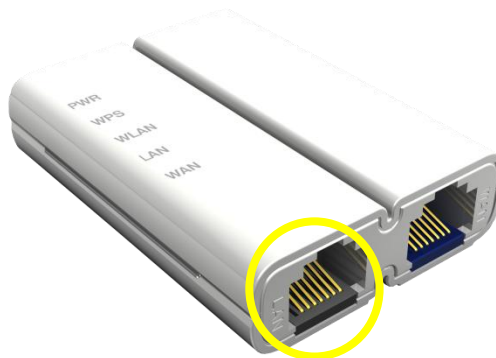


For best performance, we recommend setting up the ZuniConnectZR301 close to where you intend to use it. For the best results do not place the ZuniDigital ZR301 near any large metal objects or magnets (like those found in speakers). Also note that elevating the ZR301 from the floor will increase wireless broadcast signal performance and range.

ONCE YOU SELECT EXTENDER/BRIDGE MODE FROM THE SETUP HOMEPAGE

Step 1 – Attach Ethernet Cable

Attach one side of an RJ-45 Ethernet cable into the LAN (Ethernet) port of the ZR301, and then connect the other end to the Ethernet port on your computer.



Step 2 – Attach Power Cable

If you are using the AC adapter, plug it into a wall socket and plug the power tip into the ZR301's 5v power port. If you are using a USB cable, you can provide power to the router from any electronic device with a USB port (device must be on to power the router). Please wait 30 seconds for the router to fully boot up before continuing to the next step.

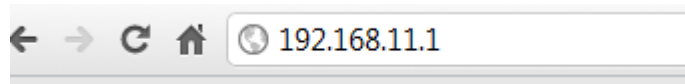


Step 3 – Begin Wireless Bridge Setup

If the setup computer has a wireless network adapter installed, disable or power it OFF before continuing with setup

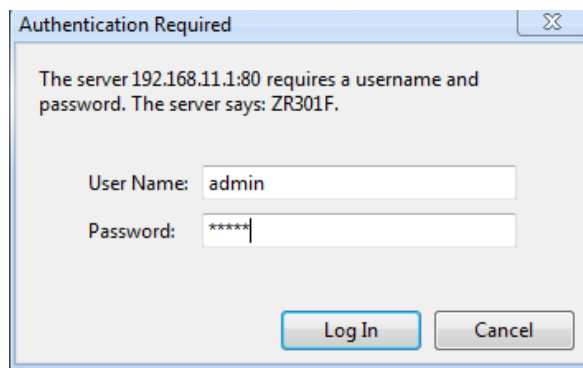
Step 4 – Access Web Configuration Utility

From your computer, open a Web browser (Internet Explorer, Firefox, or Safari) then type 192.168.11.1 into the address bar and press the ENTER key.



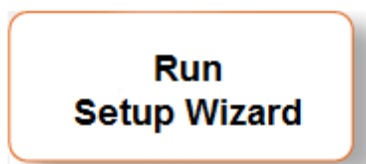
Step 5 – Log into the Wireless Bridge

In the login window key in the default User Name (**admin**) / Password (**admin**) and click the LogIn button.



Step 6 – Enter Setup Wizard

Select Extender/Bridge Mode from the Setup Screen to run the Setup Wizard.



Step 7 – Enter Setup Wizard

The ZR301 will automatically scan for available wireless networks in range.

ZR301F Wireless Set Up (Extender Mode)

Powered by ZuniConnect™ Technology

Setup Progress

Step 1: Site Survey	Step 2: Select WiFi Network	Step 3: Apply Security	Step 4: Configure SSID	Step 5: Initialize Connection	Step 6: Finalize Connection	Step 7: Exit Setup
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Step 1 of 7 - Site Survey

Automatically scanning for available wireless networks within range.

Please note that if any of the wireless extender's settings need to be changed in the future, press and hold the reset button on the wireless extender for 10 seconds. This will reset it to factory default settings, at which time the setup process can be repeated.

Helpful Hint:

This process should take about 15 seconds to complete. If you experience any problems click the "refresh" button on your Web browser.

Please wait...

Step 8 – Select Wireless Network

Select the wireless network that you want the ZR301 to utilize from the list, and then click the CONNECT button. *If the desired wireless network is not listed, verify that it is operational and click the REFRESH button. This may take two attempts.*

ZR301F Wireless Set Up (Extender Mode)

Powered by ZuniConnect™ Technology

Setup Progress

Step 1: Complete	Step 2: Select Wi-Fi Network	Step 3: Apply Security	Step 4: Configure SSID	Step 5: Initialize Connection	Step 6: Finalize Connection	Step 7: Exit Setup
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If possible, when setting up this product, it is recommended that you do so from a close proximity of where you plan on placing the wireless extender. To ensure proper setup you must be within range of your existing wireless network's signal, which will ensure sufficient wireless coverage to the bridge when in use.

Step 2 of 7 - Select Wireless Network

The ZuniConnect wireless extender detected the following wireless networks within range. Select the wireless network you want to connect to from the table below and click the "Connect" button.

Helpful Hint:

If the desired wireless network is not listed in the Available Wireless Networks table, then click the "Refresh" button. If the desired wireless network is still not listed in the table after clicking the "Refresh" button, then verify that the desired wireless network is within range and broadcasting.

DETECTED WIRELESS NETWORKS						
SSID	BSSID	Channel	Type	Encrypt	Signal	Select
ZUNINET	30:46:9a:8d:79:2b	2 (B+G+N)	AP	WPA2-PSK	36	☐
AET Wireless 2	00:22:6b:a6:14:61	6 (B+G)	AP	WPA-PSK/WPA2-PSK	8	☐
AET_Wireless	00:23:69:09:c4:7d	11 (B+G)	AP	WPA-PSK/WPA2-PSK	8	☐
Refresh			Connect			

Step 9 – Apply Security Settings

If the selected wireless network uses data encryption, you will be required to enter a Pre-Shared Key (password) in order to connect the wireless bridge to the existing wireless network. If prompted, please key in the network's password and click the NEXT button.

ZR301F Wireless Set Up (Extender Mode)

Powered by ZuniConnect™ Technology

Setup Progress

Step 1: Complete	Step 2: Complete	Step 3: Apply Security	Step 4: Configure SSID	Step 5: Initialize Connection	Step 6: Finalize Connection	Step 7: Exit Setup
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Step 3 of 7 - Enter Security Settings for the Existing Wireless Network

You are connecting to a password protected network. Please type the password in the password key box and click the "Next" button.

Helpful Hint:

If the selected wireless network's information displayed below is incorrect, click the "back" button.

Wireless Network Information	
Network Name (SSID):	ZUNINET
Channel:	2
Encryption:	WPA2
WPA2 Cipher Suite:	☐ TKIP ☒ AES
Pre-Shared Key:	
NextBack	

Step 10 – Configure the SSID (Network Name)

Key in a custom SSID extension name for your new Wireless network and press the APPLY button.

ZR301F Wireless Set Up (Extender Mode)

Powered by ZuniConnect™ Technology

Setup Progress

Step 1: Complete	Step 2: Complete	Step 3: Complete	Step 4: Configure SSID	Step 5: Initialize Connection	Step 6: Finalize Connection	Step 7: Exit Setup
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Step 4 of 7 - Configure Wireless Extender's SSID

Key in the SSID extension to be used for the wireless extender's broadcast signal and click the "Apply" button.

Helpful Hint:

If setting up more than one access point be sure that each one has a unique SSID extension, click the "back" button.

Wireless Network Information	
Network Name (SSID)	ZUNINET
Custom SSID Extension	ZUNINET-Ext
ApplyBack	

Step 11 – Initializing Wireless Connection

The wireless extender is now connecting to the selected wireless network. Once this has completed, press the NEXT button to finalize and save your settings.

ZR301F Wireless Set Up (Extender Mode)

Powered by ZuniConnect™ Technology

Setup Progress

Step 1: Site Survey	Step 2: Select WiFi Network	Step 3: Apply Security	Step 4: Configure SSID	Step 5: Initialize Connection	Step 6: Finalize Connection	Step 7: Exit Setup
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Step 5 of 7 - Initializing Wireless Connection

The connection to the wireless network was successful and the **wireless extender** has automatically been activated. Please click the **"Next"** button to finalize and save your settings.

Helpful Hint:

Wireless extender mode automatically provides a new access point that is part of the existing Wireless Local Area Network (WLAN). This new access point will have its own SSID based on the wireless network's SSID originally selected and connect to.

The new wireless extender's SSID will be the original SSID name + the extension added in Step 4 of this wizard. For example: If the original SSID selected to connect to was "My Network" the wireless extender's SSID would be "My Network_extension"

The wireless extender will automatically inherit and utilize the same security and password settings from the wireless network the that it is connected to.

Wireless Extender Information

Connected To (SSID):	Wireless Extender (SSID)	Channel	Encryption	Authentication	Network Type
ZUNINET	ZUNINET-Ext	2	AES	WPA2	ln

Next

Step 12 – Finalizing Wireless Connection

The ZR301 will automatically finalize the connection to the selected wireless network and save the settings. Please wait for this process to complete (can take up to 3 minutes).

ZR301F Wireless Set Up (Extender Mode)

Powered by ZuniConnect™ Technology

Setup Progress

Step 1: Complete	Step 2: Complete	Step 3: Complete	Step 4: Complete	Step 5: Complete	Step 6: Finalize Connection	Step 7: Exit Setup
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Step 6 of 7 - Finalizing Wireless Connection & Saving Settings

Finalizing the connection with the selected wireless network. Please be patient as this process can take up to 3 minutes to complete.

Helpful Hint:

Allow this process to finish completely before quitting the setup process or continuing to the next step. Failure to do so may result in connection problems or failure.

This process will provide an IP Address from the network router to peripherals attached to the ZuniDigital Wireless Extender. This will place the peripherals connected to the wireless extender onto the existing network and allow for greater network access and increased peripheral functionality.

For example, if you want to use your gaming console as a Media Extender to play content from a your personal computer, both devices need to be on the same IP network.

Please wait...

Step 13 – Exit Setup

The setup is now complete and the ZR301 can now be used anywhere within range of the wireless network.

RESTORE FACTORY DEFAULT SETTINGS

Should you at any time wish to restore the factory default settings press and hold the "Reset" button on the bottom of the ZR301 Router for 10 seconds, then release. The router will re-boot and all of the original factory settings will be restored. You can then change the settings as you see fit. Also, you can use the reboot process if you forget your password and wish to set up a new one.

WISP MODE

ABOUT WISP MODE

This mode allows the ZuniDigital ZR301 to use an existing wireless network signal as the WAN (Internet) connection instead of relying on a wired Broadband signal. You can use this mode to create your own private WiFi network on any public or private (if you have the password) WiFi signal. This mode is used for providing private network options where no wired Broadband Internet connection is available, but where a wireless signal exists. The ZR301 will assign separate IP addresses that are distinct from the existing WiFi network. Thus, any devices connecting to the ZR301 will be invisible to users on the main WiFi network.



For the best results do not place the ZuniDigital ZR301 near any large metal objects or magnets (like those found in speakers). Also note that elevating the ZR301 router from the floor will increase wireless broadcast signal performance and range.

ONCE YOU SELECT WISP MODE FROM THE SETUP HOMEPAGE

Step 1 - Attach LAN (Ethernet) Cable

Attach one side of an RJ-45 Ethernet cable into the LAN (Ethernet) port of the ZR301, and then connect the other end to the Ethernet port on your computer.



Step 2 - Attach Power Cable

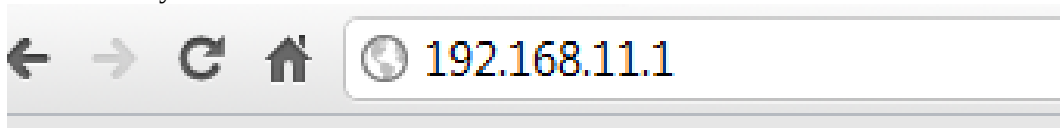
If you are using the AC adapter, plug it into a wall socket and plug the power tip into the ZR301's 5v power port. If you

are using a USB cable, you can provide power to the router from any electronic device with a USB port (device must be on to power the router). Please wait 30 seconds for the router to fully boot up before continuing to the next step.



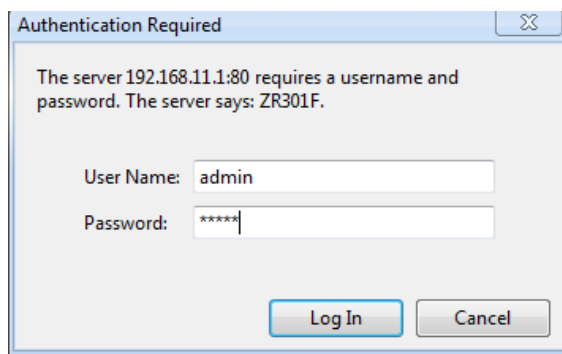
Step 3 - Access Web Configuration

From your computer, open a Web browser (Internet Explorer, Firefox, Safari, etc.) then type 192.168.11.1 into the address bar and press the **ENTER** key.



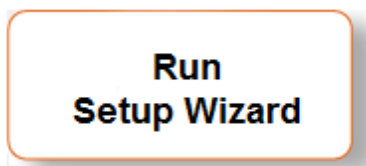
Step 4 - Setup Login

In the login window key in the default User Name (**admin**) / Password (**admin**) and click the LogIn button.



Step 5 - Enter Setup Wizard

Select Extender/Bridge Mode from the Setup Screen to run the Setup Wizard.



Step 6 - Select Wi-Fi Network to Connect With

The setup wizard will scan for available networks. Select the wireless network from the table that you want to connect the ZR301 to and click the “**Next**” button. If the desired network is not listed click the “**Refresh**” button to restart the scan.

ZR301F Wireless Set Up (Wireless ISP Mode)

Powered by ZuniConnect™ Technology

Setup Progress

Step 1: Select Wi-Fi Network (Current Step) | Step 2: Connect to Wi-Fi Network | Step 3: Configure LAN | Step 4: Configure WAN | Step 5: Basic Wi-Fi Settings | Step 6: Apply Wi-Fi Security

Setup Wizard - Select Wireless Network to Connect With

Select the wireless network you want to connect with from the table below and click the "Next" button.

If the desired wireless network is not listed in the table below click the "Refresh" button.

Refresh

DETECTED WIRELESS NETWORKS						
SSID	BSSID	Channel	Type	Encrypt	Signal	Select
ZUNINET	30:46:9a:8d:79:2b	2 (B+G+I)	AP	WPA2-PSK	40	☐
AET Wireless 2	00:22:6b:a6:f4:61	6 (B+G)	AP	WPA-PSK/WPA2-PSK	10	☐
AET_Wireless	00:23:69:09:c4:7d	11 (B+G)	AP	WPA-PSK/WPA2-PSK	6	☐

Cancel Next>>

Help Section

Wireless Network Information

SSID: The SSID or wireless network name being broadcast by the router.
BSSID: The physical address of the SSID.
Channel: Broadcast channel currently being used by the router.
Type: Function mode of the wireless router associated with the SSID.
Encrypt: Type of encryption being used by the wireless router associated with the SSID.
Signal: Signal strength of the SSID broadcast being received by the router.

Step 7 – Enter Password & Connect

If prompted, type the password used to access the desired wireless network and then click the “Next” button.

ZR301F Wireless Set Up (Wireless ISP Mode)

Powered by ZuniConnect™ Technology

Setup Progress

Step 1: Complete | Step 2: Connect to Wi-Fi Network (Current Step) | Step 3: Configure LAN | Step 4: Configure WAN | Step 5: Basic Wi-Fi Settings | Step 6: Apply Wi-Fi Security

Setup Wizard - Connect to the Selected Wireless Network

You are connecting to a password protected network. Please type the password in the password key box and click the "Next" button.

Encryption: WPA2

WPA2 Cipher Suite: ☐ TKIP ☒ AES

Pre-Shared Key:

Cancel <<Back Next>>

Help Section

Wireless Security Options

Disable: No Data Encryption
WEP: Wired Equivalent Privacy (WEP 64 or 128-bit data encryption).
WPA-PSK [TKIP]: WPA2-PSK standard encryption method with TKIP encryption type.
WPA2-PSK [AES]: WPA2-PSK standard encryption method with AES encryption type.
WPA2-Mixed: Allow clients using either WPA-PSK [TKIP] or WPA2-PSK [AES] encryption.

For optimal performance with 11N wireless network adapters, change your network's security option to WPA2-PSK [AES].

Step 8 - Connection Results

If the password was accepted by the wireless network, you will get a “connection successful” message. If this is the case, continue to the next step. If you get a “connection un-successful” message, click the “**Back**” button to restart the Setup Wizard and verify you have selected the correct WiFi network and that the password you are using is correct.

ZR301F Wireless Set Up (Wireless ISP Mode)

Powered by ZuniConnect™ Technology

Setup Progress

Step 1: Complete	Step 2: Connect to Wi-Fi Network	Step 3: Configure LAN	Step 4: Configure WAN	Step 5: Basic Wi-Fi Settings	Step 6: Apply Wi-Fi Security
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Setup Wizard - Wireless Connections successful

Please click the "Next" button to continue.

Step 9 - Configure LAN (Ethernet) Parameters

The pre-entered default values should work for most networks, but if they need to be modified you can do so now. Unless you are an advanced user we recommend that you use these default settings when creating your Local Area Network (LAN), because changing the default values listed may interfere with the router's operation. Once the values are correctly entered, press the “**Next**” button.

ZR301F Wireless Set Up (Wireless ISP Mode)

Powered by ZuniConnect™ Technology

Setup Progress

Step 1: Complete	Step 2: Complete	Step 3: Configure LAN	Step 4: Configure WAN	Step 5: Basic Wi-Fi Settings	Step 6: Apply Wi-Fi Security
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Setup Wizard - Local Area Network (Ethernet Connection) Setup

You can modify these values, but we recommend that you use these default settings when creating your Local Area Network (LAN). Once you have decided which LAN values to use, click the "Next" button.

Router IP Address:

Subnet Mask:

Intelli+IP Address Diversion:

Changing the default values listed above may interfere with the router's operation.

Help Section

Router IP Address
The IP Address of the router. The default value is 192.168.11.1

Subnet Mask
The Subnet Mask used by the router. The default value is 255.255.255.0

Intelli+IP Address Diversion
Patent pending technology that detects the main network's IP address, and if there is a network conflict, the Intelli+IP sensing technology will automatically change the router's IP address to resolve the issue. By default this function is Enabled, and will automatically be applied by the ZuniConnect Router upon completion of the Setup Wizard

Step 10 – Configure WAN (Internet) Parameters

This step lets you configure the router to utilize the specific type of broadband signal provided by your Internet provider. The majority of providers use DHCP which is the default setting of the ZuniDigital ZR301. This setting should work in most locations, but if you have any questions on which setting to use, please contact your Internet Service Provider or the local network administrator.

ZR301F Wireless Set Up (Wireless ISP Mode)

Powered by ZuniConnect™ Technology

Setup Progress

Step 1: Complete

Step 2: Complete

Step 3: Complete

Step 4: Configure WAN

Step 5: Basic Wi-Fi Settings

Step 6: Apply Wi-Fi Security

Setup Wizard - Wide Area Network (Internet Connection) Setup

Select the Internet (WAN) Access Type used by the Broadband provider you are connecting with and then click the "Next" button.

Internet (WAN) Access Type: DHCP Client

Broadband providers sometimes use different Access Type protocols such as DHCP (Dynamic), PPPoE, or Static IP. Using DHCP Client should work in most locations, but if you have any questions on which value to use, please contact the Internet Service Provider or the local network administrator.

Cancel <<Back Next>>

Help Section

Internet (WAN) Access Type

DHCP Client: The IP Address assigned by your Internet Service Provider is not fixed, and will be automatically updated when necessary.

Static IP: The IP Address assigned by your Internet Service Provider is fixed and will not change.

PPPoE: Some Internet Service Providers require this type of connection, which requires a User Name and Password, in order to access the Internet.

Step 11 - Configure Basic Wi-Fi Settings

Use this page to personalize the name of the wireless network (SSID) to be broadcast by the ZuniDigital ZR301. If desired, changes can be made to these settings, but it is recommended that only experienced users do so. Otherwise it is recommended that you do not make any changes to default values that are listed.

ZR301F Wireless Set Up (Wireless ISP Mode)

Powered by ZuniConnect™ Technology

Setup Progress

Step 1: Complete

Step 2: Complete

Step 3: Complete

Step 4: Complete

Step 5: Basic Wi-Fi Settings

Step 6: Apply Wi-Fi Security

Setup Wizard - Wireless Network (Basic Settings)

Use this page to personalize the ZuniConnect Router. Once you have decided which settings to use, click the "Next" button.

☒ Disable Wireless LAN

Network Broadcast Band: 2.4 GHz (B+G+H)

Wireless Network Name (SSID): ZuniConnect-WISP (27 Characters Max)

Channel Number: Auto

This is where you can change the name of the wireless network. You can use the default value or change it to suit your needs.

For personalization we recommend that you rename the Wireless Network Name (SSID), but leave the other factory default values in tact.

Cancel <<Back Next>>

Help Section

Disable Wireless LAN

Checking this box and clicking the "Next" button will apply the changes will disable (turn off) the wireless broadcast radio. If the wireless LAN has been disabled, wireless stations will not be able to access the Internet. To restore the wireless LAN, clear the check box and click the "Back" button.

Network Broadcast Band

This determines which Broadcast Band will be used to transmit the wireless signal.

Wireless Network Name (SSID)

The broadcast name of the router's wireless network.

Channel Number

This determines which operating channel will be used to broadcast the wireless signal. Using the default (auto) channel option should work in most cases, and you should only have to modify this field if you experience interference from another wireless access point.

Step 12 - Apply Wi-Fi Network Security Settings

By default, the ZuniDigital ZR301 broadcasts as an OPEN network with no data encryption. If you wish to enable network encryption to help secure your network, please select the encryption type you want to use, establish a password that you can remember, and then click the “Finished” button. This will finalize the settings for your ZR301 Router and you may begin using it as a wireless access point.

ZR301F Wireless Set Up (Wireless ISP Mode)
Powered by ZuniConnect™ Technology

Setup Progress: Step 1: Complete, Step 2: Complete, Step 3: Complete, Step 4: Complete, Step 5: Complete, Step 6: **Apply Wi-Fi Security**

Setup Wizard - Wireless Network (Security Settings)

By default, the ZuniConnect Router broadcasts as an OPEN network with no data encryption. If you wish to enable data encryption select the network encryption type you want to use, and establish a password for your wireless network. Once you have decided which settings to use, click the "Finished" button.

Encryption: WPA2(AES)

Pre-Shared Key Format: Passphrase

Pre-Shared Key: password (minimum of 8 Characters)

Cancel < <Back > Forward > Finished

Help Section

Wireless Security Options

- Disable: No Data Encryption
- WEP: Wired Equivalent Privacy (WEP 64 or 128-bit data encryption)
- WPA-PSK (TKIP): WPA-PSK standard encryption method with TKIP encryption type
- WPA2-PSK (AES): WPA2-PSK standard encryption method with AES encryption type
- WPA2-Mixed: Allow clients using either WPA-PSK (TKIP) or WPA2-PSK (AES) encryption

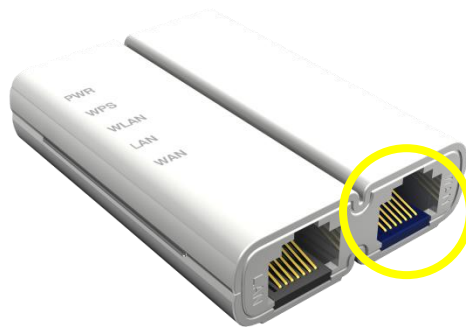
For optimal performance with 11N wireless network adapters, change your network's security option to WPA2-PSK (AES).

Pre-Shared Key Format
Choose between using a Passphrase or Hex type.

Pre-Shared Encryption Key
The actual Pass Key or Password used to access the wireless network.

Step 13 – Using the ZR301 in WISP Mode

Power the ZR301 ON and wait for it to fully boot and connect to the selected wireless network. You must place the ZR301 within range of the wireless network signal. The ZR301 will broadcast the SSID name you setup in step 9 and you can connect wireless devices to. Also, be aware that each time you relocate the ZR301 you will need to re-configure it to connect to the wireless network at the new location.



RESTORE FACTORY DEFAULT SETTINGS

Should you at any time wish to restore the factory default settings press and hold the “Reset” button on the bottom of the ZR301 Router for 10 seconds, then release. The router will re-boot and all of the original factory settings will be restored. You can then change the settings as you see fit. Also, you can use the reboot process if you forget your password and wish to set up a new one.

Troubleshooting Information

If You Need Further Assistance You Can Reach Our Product Support Team by Phone Toll-Free At 1(888)213-8529,
Or Via Email Support@Zunidigital.Com

PROBLEM	POSSIBLE SOLUTIONS
I cannot connect to the Internet wirelessly using the router, and the ZuniConnect SSID is not available	Verify the router is powered ON and a working Broadband Internet cable is plugged into the Internet (WAN) port on the router.
	If you are far away from the router try moving closer to it.
	Connect one end of an Ethernet cable to the LAN port on the router and the other end to the Ethernet port on your laptop or netbook. Log into the Web configuration utility and verify the router is setup correctly and the SSID is broadcasting.
The setup computer cannot access the Web based configuration screen.	Make sure any wireless network adapters on the setup computer have been powered OFF or disabled.
	Make sure the wired Ethernet adapter on the setup computer is set to receive an IP address automatically.
	Reboot the setup computer with the RJ-45 Ethernet cable from the ZuniConnect Bridge attached.
	Be sure you are typing the correct IP address into your Web browser (192.168.222.1)
There is no RJ-45 Ethernet port on my setup device to access the router with.	If the device you are using to configure the router does not have an Ethernet port available (for example when using a tablet PC) you will have to use the default factory settings, or download an application for your device that allows you to configure the router.
Wireless network performance is slow.	Since WiFi networking is radio based, performance will be affected by the distance between the wireless client and the router itself. To improve performance move closer to the router or try changing the SSID broadcast channel. To change the broadcast channel use the Web based configuration utility --- LAN section.
Some devices cannot connect to the wireless network	Make sure that all of the clients attempting to connect to the router's wireless signal are using the correct password.

Product Specifications

- Wireless Throughput: ZNR300 (up-to 300 Mbps)
- IEEE Wireless Standards: 802.11N, 802.11G, 802.11B
- IEEE Wired Standards: 802.3, 802.3u, 802.3x
- User Interface: (1) 10/100 LAN Port, (1) 10/100 WAN Port, WPS Button, Reset Button
- Wireless Security: 64-Bit / 128-Bit WEP / WPA / WPA2 Encryption
- Receiver Sensitivity: (802.11N) -69dBm, (802.11G) -70dBm, (802.11B) -85dBm
- Transmit Power: (802.11N) 13dBm, (802.11G) 14dBm, (802.11B) 16dBm
- Broadcast Channel: 11
- Wireless Range Coverage (MAX): Indoor 100'~300', Outdoor 100'~1000'
- LED Display: Power, WAN, LAN, WLAN, WPS
- Dimensions: 2.2" x 1.7" x 0.6"
- Weight: 0.7 oz
- Power Supply: AC to DC Adapter 100~240V, Output 5V/1A

Warranty Information:

Warranty Statement

should our ZR301 fail to perform within the warranty period, ZuniDigital, Inc. (hereafter “ZuniDigital”) will replace the same or functionally similar product at our discretion, free of charge provided you:

1. Return the product to a ZuniDigital designated facility.
2. Provide us with proof of purchase and the original purchase date.

Replacement products will be returned with ground shipping charges paid, and said products may contain refurbished materials. Please read completely, and contact our customer service department or e-mail us at: customerservice@ZuniDigital.com should you have any questions.

Limited Product Warranty

ZuniDigital warrants that this product shall be free of defects in materials and workmanship under normal use for one year. The warranty extends only to the original purchaser and is non-transferable. During the warranty period for no additional charge, ZuniDigital will repair or replace defective parts in the product or, at the option of ZuniDigital, replace the entire unit. This warranty does not extend to any ZuniDigital product that has been damaged or rendered defective (a) as a result of accident, misuse, or abuse; (b) by the use of parts not manufactured or sold by ZuniDigital; or (c) by modification of product. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE. THIS WARRANTY EXTENDS ONLY TO YOU AND CANNOT BE TRANSFERRED OR ASSIGNED. If any provision of this Limited Warranty is unlawful, void or unenforceable, that provision shall be deemed severable and shall not affect any remaining provisions. In case of any inconsistency between the English and other versions of this Limited Warranty, the English version shall prevail.

Sole Warranty

This warranty contains the sole warranty of ZuniDigital, there are no other warranties, expressed or implied, except as required by law, including implied warranty or condition of quality, merchantability or fitness for a particular purpose, and such implied warranties, if any, are limited in duration to the term of this warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

In no event shall ZuniDigital be liable for direct, indirect, incidental, special, consequential or multiple damages arising out of the use of the product or damage to the connected equipment, regardless of the legal theory on which such claim is based; even if advised of the possibility of such damage. Damages include, but are not limited to, loss of profits, loss of savings or revenue, loss of use of the product or the connected equipment or any associated equipment, loss of software, cost of capital, cost of any subsequent equipment, facilities or services, downtime, the claims of third parties, including customers, and injury to property. Some states do not allow exclusion or limitations of incidental or consequential damages so any such limitations or exclusions herein may not apply to the purchaser. This warranty is valid in U.S. and Canada only.

NOTE: COMPENSATION FOR RESTORATION OF DATA LOSS IS NOT COVERED AND ZUNIDIGITAL, INC DOES NOT ASSUME ANY LIABILITY FOR ANY INCIDENTAL, CONSEQUENTIAL OR INDIRECT DAMAGES UNDER THIS LIMITED WARRANTY. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

FCC Certifications



Federal Communication Commission Interference Statement

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 of the following measures:

- Reorient or relocate the unit to reposition the internal antennas.
- Increase the separation between the equipment and ZR301.
- Connect the equipment into an outlet on a circuit different from that to which the ZR301 is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.