

# راهنمای نصب PMG5617-T20B2



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## راهنمای نصب Zyxel – GPON HGU – PMG5617-T20B2 ONT

این ONT مخصوص سرویس FTTH است و کابل فیبر نوری به آن متصل می‌شود.

Username و password ورود به کنسول مودم بر روی برچسبی که در زیر ONT قرار دارد درج شده است.



چراغ های ONT :

چراغ GPON بیانگر اتصال فیبر و چراغ Internet نشانگر اتصال PPPoE است.



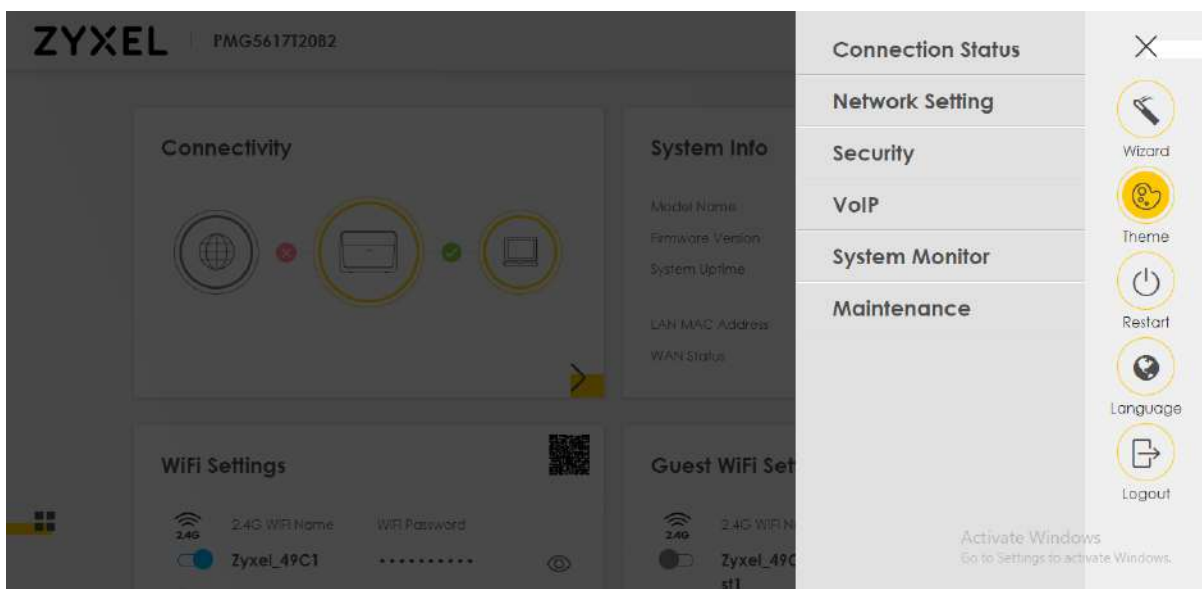
تصویر پشت ONT:



اتصال فیبر از طریق سوکتی که زیر ONT قرار دارد انجام می‌شود مطابق شکل زیر:



منوهای اصلی ONT مطابق شکل زیر است.



تنظیمات ONT از طریق Wizard:

این مرحله مربوط به تغییر پسورد ورود به کنسول ONT است.

### Password Reset

New Password

Password

The password must contain at least one numeric character and one alphanumeric character.

**Change password**

[Skip](#)

### Quick Start Wizard

1

>

2

>

3

Time ZoneInternetWiFi

The wizard will guide you through the basic settings of this device.  
This will take a few minutes to complete.

**Let's go**

[Skip](#)

1

>

2

>

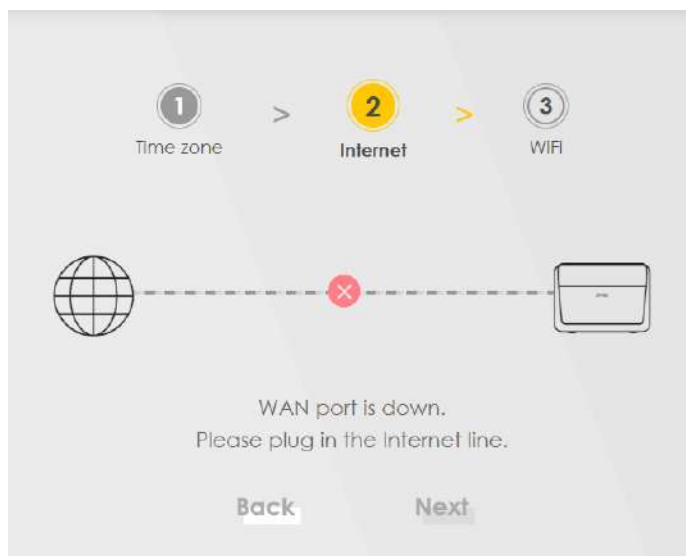
3

Time zoneInternetWiFi

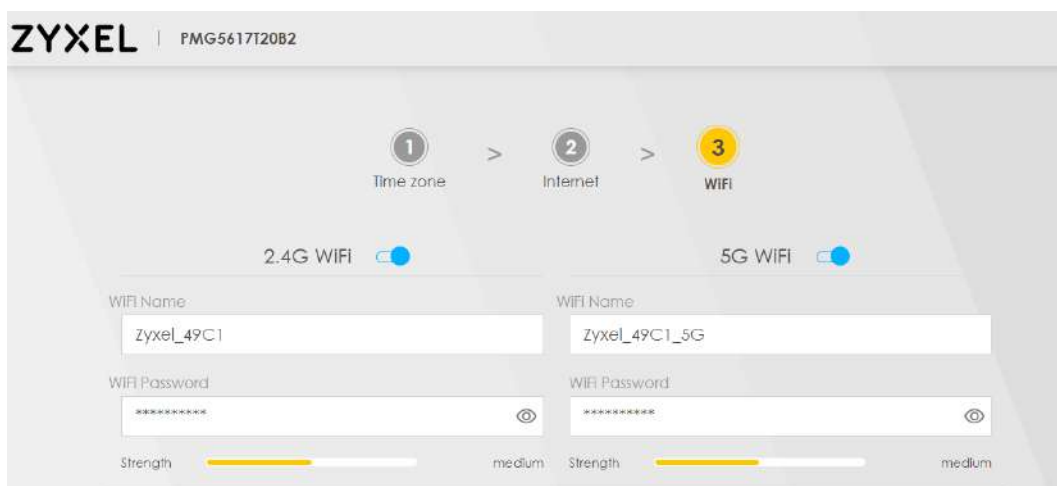
Time Zone

(GMT+01:00) Amsterdam, Berlin ▼

**Back** **Next**

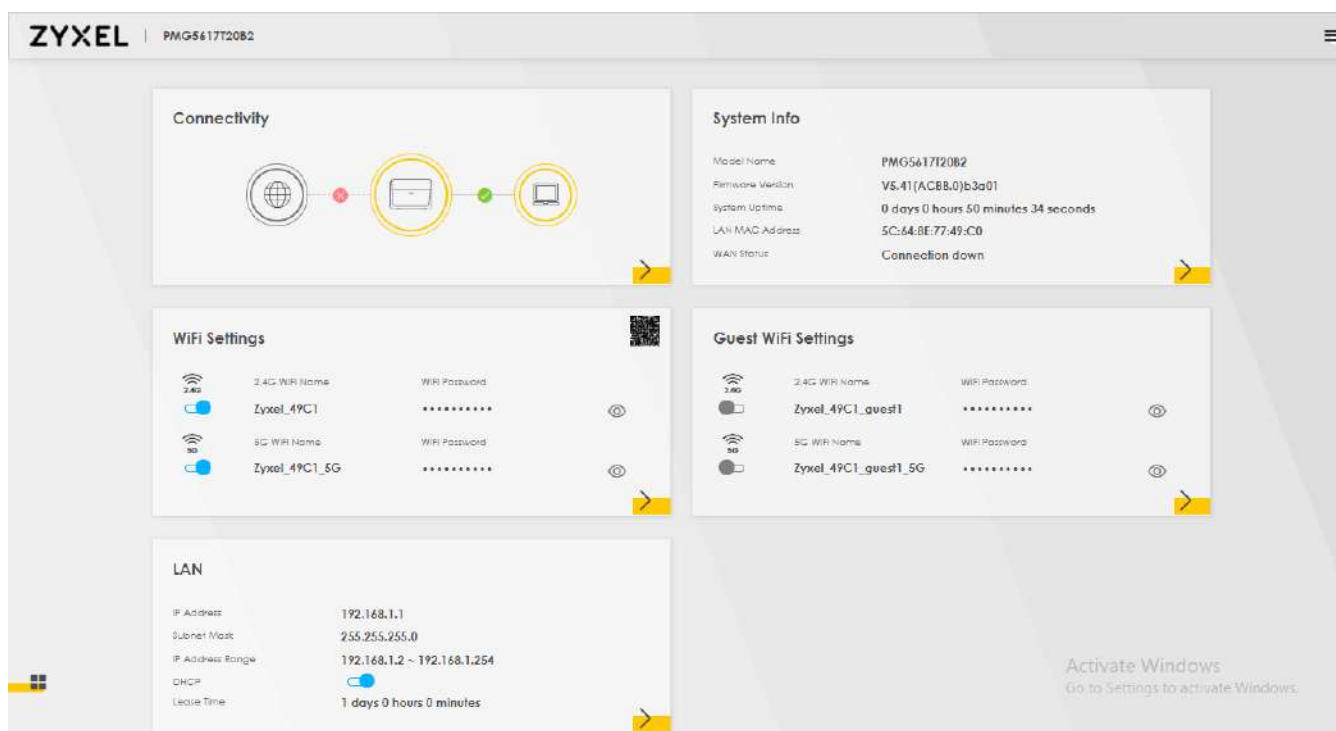


در این قسمت تنظیمات وایرلس مربوط به دو فرکانس نمایش داده شده را انجام دهید:



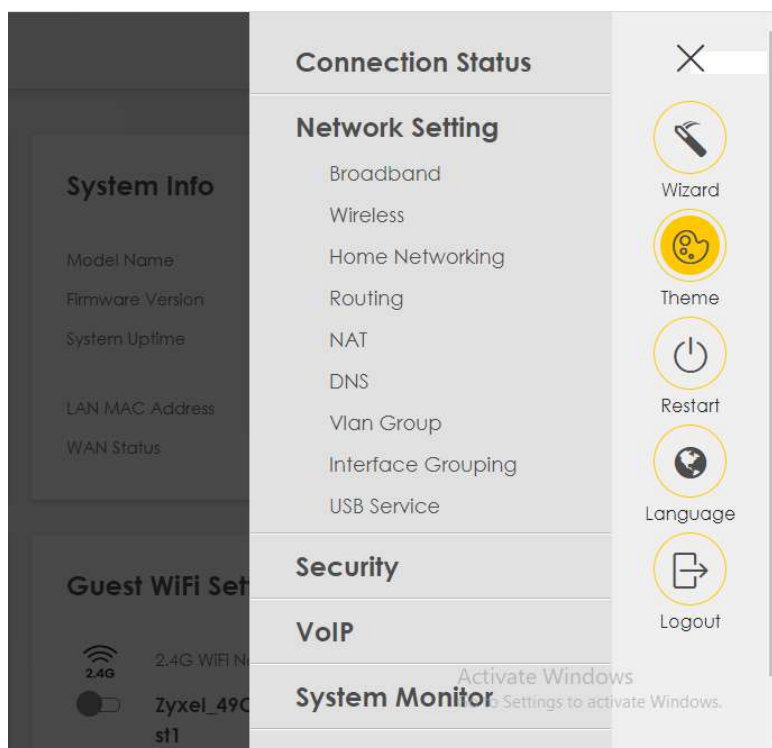
منوی connection status در صفحه اصلی اطلاعات کلی را به شما نمایش می‌دهد:

## راهنمای نصب Zyxel – GPON HGU – PMG5617-T20B2 ONT



تنظیمات ONT به صورت Manual:

تنظیمات PPPOE:





در صفحه اصلی ONT به قسمت Network setting بروید و روی گزینه Broadband کلیک کنید. سطر اول را برای تغییرات انتخاب کنید و تنظیمات را به صورت زیر انجام دهید:

| Broadband  |      |      |         |               |        |        |            |     |                 |      |           |        |
|--|------|------|---------|---------------|--------|--------|------------|-----|-----------------|------|-----------|--------|
| Use this screen to change your Zyxel Device's Internet access settings. The summary table shows you the configured WAN services (connections) on the Zyxel Device. Use information provided by your ISP to configure WAN settings. |      |      |         |               |        |        |            |     |                 |      |           |        |
| #  | Name | Type | Mode    | Encapsulation | 802.1p | 802.1q | IGMP Proxy | NAT | Default Gateway | IPv6 | MLD Proxy | Modify |
| 1  | WAN1 | PON  | Routing | IPoE          | 1      | 4010   | Y          | Y   | Y               | N    | N         |        |
| 2  | WAN2 | PON  | Routing | IPoE          | N/A    | N/A    | N          | Y   | N               | N    | N         |        |
| 3  | WAN3 | PON  | Routing | IPoE          | N/A    | N/A    | N          | Y   | N               | N    | N         |        |
| 4  | WAN4 | PON  | Routing | IPoE          | N/A    | N/A    | N          | Y   | N               | N    | N         |        |
| 5  | WAN5 | PON  | Routing | IPoE          | N/A    | N/A    | N          | Y   | N               | N    | N         |        |
| 6  | WAN6 | PON  | Routing | IPoE          | N/A    | N/A    | N          | Y   | N               | N    | N         |        |
| 7  | WAN7 | PON  | Routing | IPoE          | N/A    | N/A    | N          | Y   | N               | N    | N         |        |
| 8  | WAN8 | PON  | Routing | IPoE          | N/A    | N/A    | N          | Y   | N               | N    | N         |        |

### General

Name:

Type:

Mode:

Encapsulation:

IPv4/IPv6 Mode:

### PPP Information

PPP User Name:  شماره کاربری

PPP Password:  رمز عبور

PPP Connection Trigger: ☒ Auto Connect ☐ On Demand

PPPoE Passthrough: ☐

### VLAN

802.1p:

802.1q:  (1~4094)

### MVLAN

MVLAN:  (1~4094)

### MTU

MTU:

### IP Address

☒ Obtain an IP Address Automatically

☐ Static IP Address

### DNS Server

☒ Obtain DNS info Automatically

☐ Use Following Static DNS Address

The screenshot shows the Zyxel web interface for network configuration. The MTU is set to 1492. The DNS Server is set to 'Obtain DNS Info Automatically'. The Routing Feature section shows NAT, IGMP Proxy, and Fullcone NAT all enabled, and 'Apply as Default Gateway' checked. The 6RD feature is disabled. The 'Apply' button is highlighted in blue.

تنظیمات وایرلس:

در قسمت Network setting بر روی گزینه Wireless کلیک کنید و تنظیمات را به صورت زیر انجام دهید:

The screenshot shows the Zyxel web interface for Wireless Network Setup and Settings. The General tab is selected. The Wireless Network Setup section shows Band set to 2.4GHz, Wireless enabled, Channel set to Auto, Bandwidth set to 20MHz, and Control Sideband set to None. The Wireless Network Settings section shows Wireless Network Name set to Zyxel\_49C1, Max Clients set to 32, Hide SSID checked, Multicast Forwarding checked, and Max Upstream/Downstream Bandwidth fields empty.

BSSID: 5C:64:8E:77:49:C1

**Security Level**

No Security More Secure (Recommended)

Security Mode: WPA2-PSK

☒ Generate password automatically

Enter 8-63 ASCII characters or 64 hexadecimal digits ("0-9", "A-F").

Password: [Empty field]

Strength: medium

Cancel Apply

از طریق منوی Mac authentication می‌توانید مک‌های مورد نظر را در لیست اضافه کنید:

**Wireless**

General Guest/More AP **MAC Authentication** WPS WMM Others Channel Status

Use this screen to give exclusive access to specific devices (**Allow**) or exclude specific devices from accessing the Zyxel Device (**Deny**) based on the MAC address of each device. Every Ethernet device has a unique MAC (Media Access Control) address. It is assigned at the factory and consists of six pairs of hexadecimal characters, for example, 00:A0:C5:00:00:02. You need to know the MAC addresses of the device(s) you want to allow/deny to configure this screen.

**General**

SSID: Zyxel\_49C1

MAC Restrict Mode: ☒ Disable ☐ Deny ☐ Allow

**MAC address List**

| #                     | MAC Address | Modify |
|-----------------------|-------------|--------|
| + Add new MAC address |             |        |

Cancel Apply

تنظیمات WPS را می‌توانید از طریق تب wps در قسمت Wireless مطابق تصویر زیر انجام دهید:

### Wireless


General
Guest/More AP
MAC Authentication
WPS
WMM
Others
Channel Status

WiFi Protected Setup (WPS) allows you to quickly set up a wireless network with strong security, without having to configure security settings manually. Select one of the WPS methods and follow the instructions to establish a WPS connection. Your device must support WPS to use this feature. We recommend using Push Button Configuration (PBC) if your device supports it.

#### General


WPS ☒

#### Add a new device with WPS Method

 **Method 1 PBC** ☒

**Step1.** Click WPS button WPS


**Step2.** Press the WPS button on your new wireless client device within 120 seconds

 **Method 2 PIN** ☐

**Step1.** Enter the PIN of your new wireless client device and then click Register

[Register](#)

**Step2.** Press the WPS button on your new wireless client device within 120 seconds

 **Method 3** ☐

**Enter AP's PIN Number in wireless Client**

**Current state** Configured

1. Please release configuration if you want to configure the wireless settings

[Release Configuration](#)

2. Enter current PIN number on your wireless client

[Generate New PIN](#)

Note

کانال وایرلس نیز از طریق صفحه زیر قابل تغییر است:

### Wireless

General
Guest/More AP
MAC Authentication
WPS
WMM
Others
Channel Status

Use this screen to scan for wireless LAN channel noise and view the results. Click **Scan** to start, and then view the results in the **Channel Scan Result** section. The value on each channel number indicates the number of Access Points (AP) using that channel. The Auto-channel-selection algorithm does not always directly follow the AP count; other factors about the channels are also considered.

#### Channel Monitor

Scan wireless LAN Channels Scan

Note

(1) It takes about 15 seconds to scan the wireless channels

#### Channel Scan Result

Time for last scan: N/A

Note

## تنظیمات IP :

برای تنظیمات آی پی می‌توانید از طریق منوی Networksetting بر روی گزینه Home networking کلیک کنید.

**Home Networking**

**LAN Setup** Static DHCP UPlP Additional Subnet Wake on LAN TFTP Server Name Loop Guard

Use this screen to set the Local Area Network IP address and subnet mask of your Zyxel Device. Configure DHCP settings to have the Zyxel Device or a DHCP server assign IP address.

**Interface Group**

Group Name: Default

**LAN IP Setup**

IP Address: 192 . 168 . 1 . 1

Subnet Mask: 255 . 255 . 255 . 0

**DHCP Server State**

DHCP: ☒ Enable ☐ Disable ☐ DHCP Relay

**IP Addressing Values**

Beginning IP Address: 192 . 168 . 1 . 2

Ending IP Address: 192 . 168 . 1 . 254

Auto reserve IP for the same host: ☐

**DHCP Server Lease Time**

1 days 0 hours 0 minutes

**DNS Values**

DNS: ☒ DNS Proxy ☐ Static ☐ From ISP

**LAN IPv6 Mode Setup**

IPv6 Active: ☐

Cancel Apply

## تنظیمات Port forwarding :

در قسمت Networksetting بر روی گزینه NAT کلیک کنید تا وارد تنظیمات Portforwarding شوید:

### NAT

**Port Forwarding** | Port Triggering | DMZ | ALG | Address Mapping | Sessions

Use **Port Forwarding** to forward incoming service requests from the Internet to the server(s) on your local network. Port forwarding is commonly used when you want to host online gaming, P2P file sharing, or other servers on your network.

[+ Add New Rule](#)

| # | Status | Service Name | Originating IP | WAN Interface | Server IP Address | Start Port | End Port | Translation Start Port | Translation End Port | Protocol | Modify |
|---|--------|--------------|----------------|---------------|-------------------|------------|----------|------------------------|----------------------|----------|--------|
|---|--------|--------------|----------------|---------------|-------------------|------------|----------|------------------------|----------------------|----------|--------|

Note  
TCP port 7547 is reserved for system use.

با کلیک بر روی گزینه Add New Rule می‌توانید تنظیمات مورد نظر را در این قسمت انجام دهید:

<
**Add New Rule**

Active
☒

Service Name

WAN Interface

Default ▼

Start Port

End Port

Translation Start Port

Translation End Port

Server IP Address

Configure Originating IP
☐ Enable

Protocol

TCP ▼

**Note**

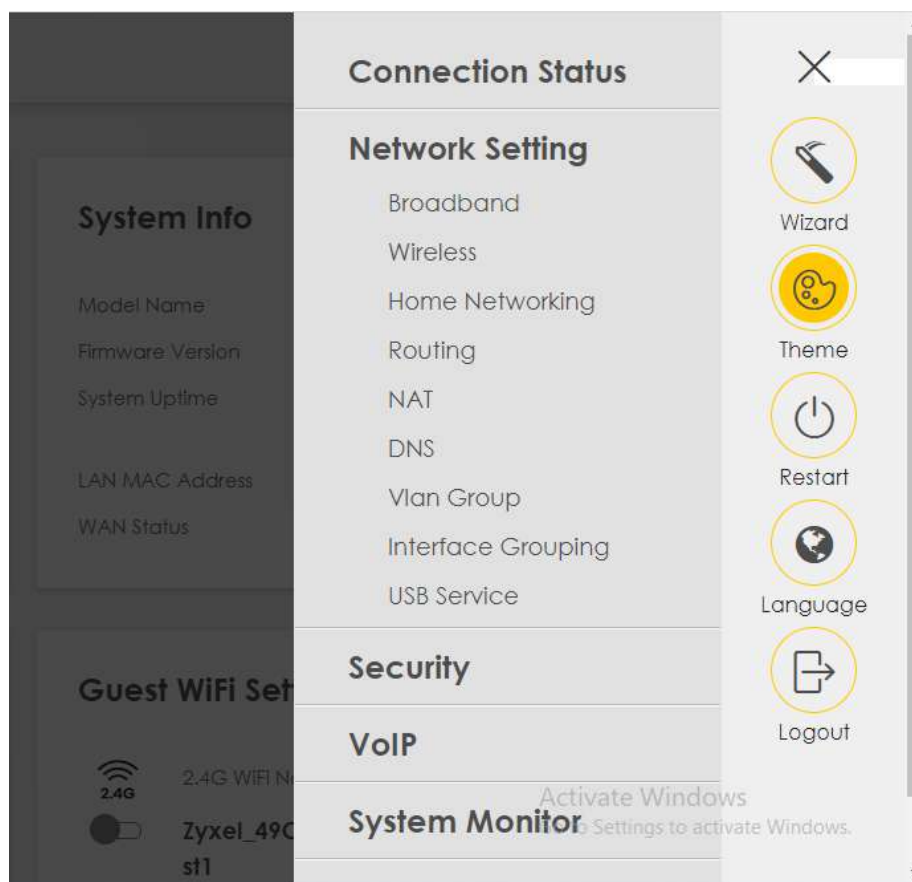
1.To configure port forwarding, you need to have the same configurations in the **Start Port**, **End Port**, **Translation Start Port**, and **Translation End Port** fields.

To configure port translation, you need to have different configurations in the **Start Port**, **End Port**, **Translation Start Port**, and **Translation End Port** fields.

Here's an example to configure port translation. Configure **Start Port** to 100, **End Port** to 120, **Translation Start Port** to 200, and **Translation End Port** to 220.

2.TCP port 7547 is reserved for system use.

Cancel
OK



از طریق منوی Maintenance با کلیک بر روی گزینه Remote Management امکان دسترسی به کنسول ONT وجود دارد.



## Remote Management

### MGMT Services Trust Domain

Use this screen to configure through which interface(s), each service can access the Zyxel Device. You can also specify service port numbers computers must use to connect to the Zyxel Device.

#### Service Control

WAN Interface used for services:

☒ Any\_WAN ☐ Multi\_WAN

☐ WAN1 ☐ WAN2 ☐ WAN3 ☐ WAN4 ☐ WAN5 ☐ WAN6 ☐ WAN7 ☐ WAN8

| Service | LAN/WLAN                                   | WAN                             | Trust Domain                    | Port |
|---------|--|---------------------------------|---------------------------------|------|
| HTTP    | <input checked="" type="checkbox"/> Enable | <input type="checkbox"/> Enable | <input type="checkbox"/> Enable | 80   |
| HTTPS   | <input checked="" type="checkbox"/> Enable | <input type="checkbox"/> Enable | <input type="checkbox"/> Enable | 443  |
| FTP     | <input checked="" type="checkbox"/> Enable | <input type="checkbox"/> Enable | <input type="checkbox"/> Enable | 21   |
| TELNET  | <input checked="" type="checkbox"/> Enable | <input type="checkbox"/> Enable | <input type="checkbox"/> Enable | 23   |
| SSH     | <input checked="" type="checkbox"/> Enable | <input type="checkbox"/> Enable | <input type="checkbox"/> Enable | 22   |
| SNMP    | <input checked="" type="checkbox"/> Enable | <input type="checkbox"/> Enable | <input type="checkbox"/> Enable | 161  |
| PING    | <input checked="" type="checkbox"/> Enable | <input type="checkbox"/> Enable | <input type="checkbox"/> Enable |      |

Cancel

Apply

Activate Windows  
Go to Settings to activate Windows.

### تنظیمات Voip:

از طریق منوی Voip گزینه SIP را انتخاب کنید.


## SIP

### SIP Account SIP Service Provider

You can make calls over the Internet using VoIP technology. For this, you first need to set up a SIP account with a SIP service provider.

The Zyxel Device uses a SIP account to make outgoing VoIP calls and check if an incoming call's destination number matches your SIP account's VoIP number. In order to make or receive a VoIP call, you need to enable and configure a SIP account and map it to a phone port. The SIP account contains information that allows your Zyxel Device to connect to your VoIP service provider.

 Add New Account

| # | Enable   | SIP Account | Service Provider | Account Number | Modify  |
|---|----------|-------------|------------------|----------------|---|
| 1 | Disabled | SIP1        | ChangeMe         | ChangeMe       |   |

با کلیک بر روی گزینه Add New Account وارد صفحه زیر خواهید شد:

SIP Account Selection
ChangeMe

### SIP Service Provider Association

SIP Account Associated with voice.shatel.ir

### General

☒ Enable SIP Account

SIP Account Number 219100

### Authentication

Username 219100

Password \*\*\*\*\*

### URL Type

URL Type SIP

### Voice Features

Primary Compression Type G.711u

Secondary Compression Type G.711a

Third Compression Type G.722

Speaking Volume Control Middle

## VoIP Status

Information, such as whether a SIP account is registered and the total call volume made by a SIP account, can be viewed in the page.

Poll  SEC  
Interval(s)

[Set Interval](#) [Stop](#)

### SIP Status

| Account | Register Action                     | Registration | Registration Time  | URI                             | Message Waiting | Last Incoming Number | Last Outgoing Number |
|---------|-------------------------------------|--------------|--------------------|---------------------------------|-----------------|----------------------|----------------------|
| 1       | <input checked="" type="checkbox"/> | Registered   | 0 day(s), 01:15:32 | 21910[REDACTED]@voice.shatel.ir | No              | 09122[REDACTED]      | 0912[REDACTED]37     |
| 2       | <input type="checkbox"/>            | Disabled     |                    | ChangeMe@voice.shatel.ir        | No              |                      |                      |

## Phone

[Phone Device](#)

Phone Device configuration defines the relations between your SIP account(s) and phone(s). That is, which phone(s) will ring when a specific SIP account number receive an incoming call; and which SIP account number will be used when a specific phone is used to make an outgoing call.

### Analog Phone















| # | Phone ID | Internal Number | Incoming SIP Number | Outgoing SIP Number | Modify                              |
|---|----------|-----------------|---------------------|---------------------|-------------------------------------|
| 1 | PHONE1   | **11            | 21910[REDACTED]     | 219[REDACTED]       | <input checked="" type="checkbox"/> |
| 2 | PHONE2   | **12            | ChangeMe            | ChangeMe            | <input checked="" type="checkbox"/> |

**Call History** | Call Summary

Call History page shows the information of previous call.

Classify:: All Clear List Refresh Export

Incoming Outgoing Missed

| Type  | Date                   | Name | Number     | Phone Device | Outgoing Number | Duration (hh:mm:ss) | Modify  |
|---|------------------------|------|------------|--------------|-----------------|---------------------|---|
|  | 12-28-2021<br>14:36:25 |      | 0912255555 | PHONE1       | 2191000000      | 00:00:00            |  |
|  | 12-28-2021<br>14:36:14 |      | 0912255555 | PHONE1       | 2191000000      | 00:00:00            |  |
|  | 12-28-2021<br>14:32:50 |      | 0912255555 | PHONE1       | 2191000000      | 00:00:01            |  |
|  | 12-28-2021<br>14:29:21 |      | 0912255555 | PHONE1       | 2191000000      | 00:00:11            |  |
|  | 12-26-2021<br>20:48:08 |      | 77344444   |              | 2191000000      | 00:00:00            |  |
|  | 12-26-2021<br>20:46:53 |      | 77344444   |              | 2191000000      | 00:00:00            |  |
|  | 12-26-2021<br>11:20:37 |      | 66666666   |              | 2191000000      | 00:00:00            |  |

## Firmware Upgrade

This screen lets you upload new firmware to your Zyxel Device.

Download the latest firmware file from the Zyxel website and upload it to your Zyxel Device using this screen. The upload process uses HTTP (Hypertext Transfer Protocol) and may take up to two minutes. After a successful upload, the Zyxel Device will reboot.

### Upgrade Firmware

Restore Default Settings After Firmware Upgrade

☐

Current Firmware Version: V5.41 (ACBB.0)b3a01

File Path

Choose File

No file chosen

Upload