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About TA Series Analog VoIP Gateway

Yeastar TA Analog VoIP Gateways are cutting-edge products that connect legacy telephones, fax machines and PBX systems with IP telephony networks and IP-based PBX systems. Featuring rich functionalities and easy configuration, Yeastar TA is ideal for small and medium enterprises that wish to integrate a traditional phone system into IP-based system. Yeastar TA helps them to preserve previous investment on legacy telephone system and reduce communication costs significantly with the true benefits of VoIP.

This Guide explains how to install Yeastar TA Analog VoIP Gateway, how to log in web interface, etc.
1. Preparation before Installation

**Please make sure the following devices are available before installation**

- **Contents of the box**

  Upon receiving Yeastar TA gift box, please open the package and check if all the items are supplied as TA400/410/800/810 Packing List (See Sheet 1) and TA1600/1610/2400/3200 Packing List (See Sheet 2). If there is any problem, please contact your provider.

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>QTY</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA400/410/800/810</td>
<td>PC</td>
<td>1</td>
<td>device unit</td>
</tr>
<tr>
<td>Power adaptor</td>
<td>PC</td>
<td>1</td>
<td>Power Supply</td>
</tr>
<tr>
<td>Network cable</td>
<td>PC</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Stand</td>
<td>PC</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Warranty card</td>
<td>PC</td>
<td>1</td>
<td>With Serial Number printed for Repair &amp; Return</td>
</tr>
<tr>
<td>Quick installation guide</td>
<td>PC</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>QTY</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA1600/2400/3200</td>
<td>PC</td>
<td>1</td>
<td>device unit</td>
</tr>
<tr>
<td>Power cord</td>
<td>PC</td>
<td>1</td>
<td>For the input of power</td>
</tr>
<tr>
<td>Network cable</td>
<td>PC</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Warranty card</td>
<td>PC</td>
<td>1</td>
<td>With Serial Number printed for Repair &amp; Return</td>
</tr>
<tr>
<td>Quick installation guide</td>
<td>PC</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Mounting ears</td>
<td>PC</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Screws</td>
<td>PC</td>
<td>8</td>
<td>8 screws (φ3.0*6 mm) for mounting ears</td>
</tr>
<tr>
<td>Grounding stud and nut</td>
<td>Pair</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Rubber feet</td>
<td>PC</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>
2. Hardware Specifications

2.1 Overview

Figure 2-1 TA Series Analog VoIP Gateways

Table 2-1 Yeastar TA Telephony Interfaces

<table>
<thead>
<tr>
<th>Models</th>
<th>RJ11 FXS Ports</th>
<th>RJ11 FXO Ports</th>
<th>RJ21 FXS Ports</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA400</td>
<td>4</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>TA410</td>
<td>–</td>
<td>4</td>
<td>–</td>
</tr>
<tr>
<td>TA800</td>
<td>8</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>TA810</td>
<td>–</td>
<td>8</td>
<td>–</td>
</tr>
<tr>
<td>TA1600</td>
<td>16</td>
<td>–</td>
<td>1</td>
</tr>
<tr>
<td>TA1610</td>
<td>–</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>TA2400</td>
<td>24</td>
<td>–</td>
<td>1</td>
</tr>
<tr>
<td>TA3200</td>
<td>32</td>
<td>–</td>
<td>2</td>
</tr>
</tbody>
</table>
2.2 LED Indicators and Ports

The LED indicators and ports of TA400, TA410, TA800, and TA810 are similar; TA1600, TA1610, TA2400 and TA3200 are similar; the difference is the number for ports and the type of ports. Take the front panel and rear panel of TA800 and TA3200 as examples.

➢ Front Panels

![Figure 2-2 TA800 Front Panel](image)

![Figure 2-3 TA3200 Front Panel](image)
Rear Panels

Figure 2-4 TA800 Rear Panel

Figure 2-5 TA3200 Rear Panel
Table 2-2 LED Indications

<table>
<thead>
<tr>
<th>LED</th>
<th>Indication</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>POWER</td>
<td>Power status</td>
<td>On</td>
<td>The power is switched on.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Off</td>
<td>The power is switched off.</td>
</tr>
<tr>
<td>RUN</td>
<td>status</td>
<td>Blinking</td>
<td>is running properly.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Not Blinking/Off</td>
<td>goes wrong.</td>
</tr>
<tr>
<td>1-32 FXS Ports Status</td>
<td>Green light</td>
<td>Solid green: the port is idle.</td>
<td>Green light blinking: there is an ongoing call on the port.</td>
</tr>
<tr>
<td>1-8  FXO Ports Status</td>
<td>Green light</td>
<td>Solid green: the port is idle.</td>
<td>Green light blinking: there is an ongoing call on the port.</td>
</tr>
</tbody>
</table>

Table 2-3 Ports Descriptions

<table>
<thead>
<tr>
<th>Ports</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethernet Port</td>
<td>provides 1 10/100 adaptive RJ45 Ethernet ports, marked as LAN.</td>
</tr>
<tr>
<td></td>
<td><strong>LAN port</strong>: LAN port is for the connection to Local Area Network (LAN).</td>
</tr>
<tr>
<td>Reset Button</td>
<td>Press the reset button to restore the factory defaults.</td>
</tr>
<tr>
<td></td>
<td>⚠ Please make sure that you want to reset, because once reset the previous configurations would be erased automatically.</td>
</tr>
<tr>
<td>Power Inlet</td>
<td>For connection of power supply.</td>
</tr>
<tr>
<td>RJ11 FXS Ports</td>
<td>For connection of analog phones/fax machines.</td>
</tr>
<tr>
<td>RJ11 FXO Ports</td>
<td>For connection of PSTN interfaces or PBX extension interfaces.</td>
</tr>
<tr>
<td>RJ21 FXS Ports</td>
<td>For connection of analog phones/fax machines with an RJ21 to RJ11 cable.</td>
</tr>
<tr>
<td>RS232 Console Port (TA1600/1610/2400/3200)</td>
<td>For debugging.</td>
</tr>
</tbody>
</table>

2.3 Specifications and Operating Environment

Table 2-4 TA400/410/800/810 Specifications and Operating Environment

<table>
<thead>
<tr>
<th>TA400/410/800/810</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size (L×W×H)</td>
<td>200 mm × 137 mm × 25 mm</td>
</tr>
<tr>
<td>Power Supply</td>
<td>12V 1A</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0 to 40°C, 32 to 104°F</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20 to 65°C, 4 to 149°F</td>
</tr>
<tr>
<td>Humidity</td>
<td>10%~90% (Non-condensing)</td>
</tr>
</tbody>
</table>
Table 2-5 TA1600/1610/2400/3200 Specifications and Operating Environment

<table>
<thead>
<tr>
<th>TA1600/1610/2400/3200</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size (L×W×H)</td>
<td>440 mm × 250 mm × 44 mm</td>
</tr>
<tr>
<td>Power Supply</td>
<td>AC 100-240V 50/60Hz</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0 to 40°C, 32 to 104°F</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20 to 65°C, 4 to 149°F</td>
</tr>
<tr>
<td>Humidity</td>
<td>10% to 90% (non-condensing)</td>
</tr>
</tbody>
</table>
3. Yeastar TA Series Installation

3.1 Safety Disclaimers and Installation Warnings

To avoid unexpected accident, personal injury or device damage, please read the safety disclaimers and installation warnings.

**Power**
- Use only the power adapter provided with the Yeastar TA device
- Keep the power off during the installation.
- Make sure that the supply voltage matches the specifications indicated on the back panel of the device.
- To avoid the electric accident, do not open or remove the cover of device when it is working as well as off the power.
- Before cleaning the device, cut off the power supply.

**Environment**
Install the Yeastar TA device in a location that is clean, free from vibration, electric shock, and temperature/humidity extremes. The operating temperature should be kept below 104°F (40°C).

3.2 Installation Instructions

Place the Gateway in a suitable place, and then connect the power adapter and all other cables to complete the installation.

3.2.1 Ground Connection

Frame ground connection for Yeastar TA1600, TA1610, TA2400 and TA3200.

*The ground wire must be installed by the service person.*
1. Tighten the provided M3*5 screw stud into the Grounding port on TA device.
2. Insert a 18AWG grounding wire (user-supplied).
3. Tighten the provided M3 screw nut using a straight screwdriver.
4. Attach the grounding wire to the grounding terminal.

**WARNING**
- Proper grounding (connection to ground) is very important to reduce the risk to the user of electrocution or to protect the TA device from the bad effects of external noise in the case of a lightning strike.
- Only
- A permanent connection between ground and the ground terminal of the TA device must be made.

### 3.2.2 Wall-mount Instruction

Yeastar TA400/410/800/810, besides being a desktop device, is also wall-mountable. Mounting the device on the wall could save some space if space is limited.

Remove the screws on the stand. The screw the clump weight to the stand again to the stand as the picture shows.
Push the TA device into the stand.

Fix two screws on the wall and then you could mount the stand to the wall.

3.2.3 Connection of Ethernet Ports

YeastarTA provides one 10/100M adaptive RJ45 Ethernet LAN port.

- **LAN Port Connection**
  Connect one end of a network cable to the LAN port of the Gateway, and the other end to any port of company’s LAN switch/router.

3.2.4 Connection of FXS Ports

TA FXS Gateways are available with 5 models, supporting up to 32 FXS ports.

- **RJ11 Phone Port**
  Connect one end of a RJ11 phone cable to the port. Connect the other end to your analog telephone.

- **RJ21 Connection**
  Applicable to TA1600/2400/3200.
  Connect one end of a RJ21 cable to the connector. Connect the other ends to your analog telephones.
3.2.5 Connection of FXO Ports

TA FXO Gateways include TA410, TA810, and TA1610, supporting 4, 8, and 16 FXO ports respectively.

Connect the FXO interfaces to the Public Telephone Network (PSTN) or a PBX extension interface.

3.2.6 Power Connection

Connect the power adapter to the Gateway’s power port, and then plug the power adapter into an electrical outlet. Press the On switch to power on the Gateway. The gateway will start booting. In the meantime, users would see that the “POWER” and “RUN” indicator lights turn on.

Note
• Please power off the TA device before plugging or unplugging the cables.
• Please disconnect all telecommunication network connectors and cable distribution system connectors before power off the TA device.

3.2.7 Connection Diagram

Figure 3-1 TA800 Connection Diagram

Figure 3-2 TA810 Connection Diagram
Figure 3-3 TA3200 Connection Diagram
4. TA Series Basic Configurations

4.1 Getting an IP Address

Yeastar TA provides web-based configuration interface for administrator and account user. The user can manage the device by logging in the Web interface.

- **Access path:** http://[IP address]
- **User Name:** admin
- **Password:** password
- **Default SIP UDP port:** 5060

The TA attempts to contact a DHCP server in your network to obtain valid network settings (e.g., the IP address, subnet mask, default gateway address and DNS address) by default. Please enable DHCP Server in your network to obtain the IP address.

Note: by default, TA410/TA810 (version 41.19.0.23 or later) uses a static IP address: http://192.168.5.150.

Due to the difference of telephony interface, TA FXS Gateway and FXO Gateway will use different methods to check the IP address.

**TA FXS Gateway**
1. Use an analog phone connected to the FXS port of the Gateway, press *** to get into the IVR menu. Enter 1 to obtain the Gateway’s IP address.
2. If there is no DHCP server in the network, press 3 for advanced setting, and press 2 to assign a static IP address to the device.

**TA FXO/FXS Gateway**
1. Download a DeviceFound tool from Yeastar website: [FindTA.rar](http://FindTA.rar)
2. Run the DeviceFound.exe software.
3. Find the IP address by the device's MAC address or the SN.
4.2 Logging in the Web Configuration Panel

Start the browser on PC. In the address bar, enter the IP address, click “Enter” button and then you can see Web Configuration Panel login page. Enter the Admin User Name and Password to log in.

![Figure 4-2 TA Web Configuration Panel Login Page](image)

Via the configuration interface, the admin can make all the system configurations, including network settings (LAN, WAN, Firewall, VPN, DDNS, VLAN, etc.); system parameters configuration (time zone, password, etc.); internal settings (Web access port, etc.); FXS ports list; FXO ports list; Hunting Groups; Hotline; call logs (search, download); firmware update and reset, etc.

**Note:** after saving the changes, remember to click the “Apply changes” button to make the changes take effect.

4.3 Network Settings

After logging in the admin configuration interface, generally the first step is to configure the IP address. If the LAN ports are connected to the network, their IP addresses need to be configured. If not, just configuring the IP address of the LAN port which is connected to the local area network of the company is OK.

- **LAN Settings**
  
  Click “Network Preferences”→“LAN Settings” on the left menu bar of the web configuration interface. LAN port is used for the interoperability of IP terminals and . If the LAN port is connected to the company’s LAN, please configure the correct IP address and corresponding subnet mask.
**Note:** please note that after changing the IP address of LAN port, TA device should be rebooted to make the new changes to take effect.

### 4.4 Make and Receive Calls

- **TA FXS Gateway**
  1. **Internal calls between FXS ports**
     Two analog phones connected to TA could make calls between them by dialing *99+FXS port number.
  2. **Outbound and inbound calls**
     Users should be able to make and receive external calls after configuring FXS Ports, VoIP Server, and Dial Pattern. Please refer to User Manual for details.

- **TA FXO Gateway**
  1. **Route calls from a PSTN number to IP-PBX**
     Users should be able to receive PSTN-to-VoIP call after configuring FXO Ports, VoIP trunk and Port -> IP. Please refer to User Manual for details.
  2. **Route calls from VoIP trunk to a PSTN number**
     Users should be able to make VoIP-to-PSTN call after configuring FXO Ports, VoIP trunk and IP -> Port. Please refer to User Manual for details.

### 4.5 Reset to Factory Defaults

To reset to factory defaults, you could follow the below instruction:
Press the “RESET” button located in the back panel with a paper clip or a pencil tip.
You can see the RUN indicator stops flicker and turns solid. When the RUN indicator turns off, the button could be released and system begins to reset.

**Note:**
- During the process, please do not power off until the RUN indicator become normal which means the reset process is completed.
- After resetting, all the configurations made by the admin would be erased.
5. Conclusion

This Installation Guide only explains the installation and basic settings of TA Series Analog VoIP Gateways. For more functionality and advanced settings, please refer to the relative documents as below:

“TA Series Analog VoIP Gateways Datasheet”

“Yeastar_TA400&TA800_User_Manual_en”

“Yeastar_TA1600&TA2400&TA3200_User_Manual_en”

“Yeastar_TA410&TA810_User_Manual_en”

“Yeastar_TA1610_User_Manual_en”

[The End]