# Yeastar S50 VoIP PBX

## Installation Guide

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# Content

**Content**.....2

**Welcome**.....3

**Before You Start**.....4

Package Contents.....4
Hardware Overview.....4
LED Indicators and Ports.....5

**Installation**.....7

Safety Disclaimers and Installation Warnings.....7
Module Installation.....7
Desktop Installation.....10
Rack Installation .....10
Ground Connection.....11

**Connecting the Equipment**.....12

**Getting Started with the Configuration**.....13



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# Welcome

Thank you for choosing Yeastar S50 IP PBX. S50 is a compact and full-featured IP-PBX that comes in a 19" 1U rack-mountable chassis. The advanced module-based S50 is capable of supporting ISDN BRI, PSTN, and GSM connectivity, providing VoIP communications for up to 50 users.

This guide describes how to install the S50 and how to log in the web GUI to configure the system. Once you complete the installation, refer to the *Yeastar S-Series Administrator Guide* for instructions on how to perform configurations on the system.

## Related Documents

This Installation Guide only explains the installation of Yeastar S50 IPPBX. For more functionality and advanced settings, please refer to the relative documents as below:

| Document | Description |
|---|---|
| Yeastar S-Series Datasheet | Datasheet for the Yeastar S-Series IPPBX. |
| Yeastar S-Series Administrator Guide | The administrator could refer to this manual for instructions on how to configure, operate, monitor, and maintain the Yeastar S50 IPPBX. |
| Yeastar S-Series Extension User Guide | Users could refer to the guide for instructions on how to login the user portal, and how to configure their accounts, listen to call recordings, check voicemail messages, etc. |



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# Before You Start

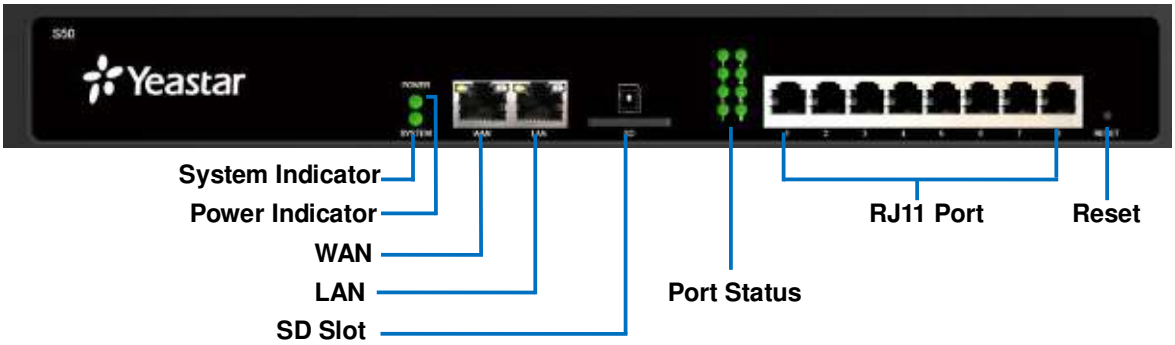
Before you begin to install the S50 IP Phone System, please check the package contents to verify that you have received the items below. If there is any problem, please contact your provider.

## Package Contents

| | | |
|---|---|---|
| 1* S50 PBX | 1* Ethernet Cable | 1* Power Cord |
| 2 Rack Mounting Kits | 1* Grounding Stud & Nut | 4* Rubber Feet |
| 1* Warranty card | 1* Quick Start Guide | |

## Hardware Overview

**Front Panel**




**Rear Panel**

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# LED Indicators and Ports

## LED Indicators

| LED | Indication | Status | Description |
|---|---|---|---|
| POWER | Power status | On | The power is switched on. |
| | | Off | The power is switched off. |
| System | System status | Blinking | The system is running properly. |
| | | Static/Off | The system goes wrong. |
| WAN | WAN status | Static Green light | Linked normally, 10/100 Mbps. |
| | | Static Orange light | Linked normally, 1000 Mbps. |
| | | Blinking Orange light | In communication. |
| | | Off | Off-line. |
| LAN | LAN status | Static Green light | Linked normally, 10/100 Mbps. |
| | | Static Orange light | Linked normally, 1000 Mbps. |
| | | Blinking Orange light | In communication. |
| | | Off | Off-line. |
| Port Status | FXS | Green light | • Static: The port is idle.<br>• Blinking: There is an ongoing call on the port. |
| | GSM/3G | Red light | • Static: the trunk is idle.<br>• Blinking slowly: there is no SIM card inserted.<br>• Blinking rapidly: the trunk is in use. |
| | BRI | Orange light | • Blinking slowly: the BRI line is disconnected.<br>• Static: the BRI line is connected or in use. |
| | FXO | Red light | • Blinking slowly: no PSTN line is connected to the port.<br>• Static: the PSTN line is idle.<br>• Blinking rapidly: the PSTN line is busy. |

## Port Description

| Ports | Description |
|---|---|
| RJ11 Port | **FXO port** (red light): for the connection of PSTN lines or FXS ports of traditional PBX.<br>**FXS port** (green light): for the connection of analog phones.<br>**BRI port** (orange light): for the connection of ISDN BRI lines.<br>**Note:** the sequence number of the ports corresponds to that of the Indicator lights in the front panel. (I.e. the LED lights in the front indicate the connection |



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| | |
|---|---|
| | status of the corresponding ports at the front panel.) |
| ANT | Rotate the antenna into the Antenna Socket. |
| SD Slot | Insert a SD card. |
| Ethernet Port | Yeastar S50 provides two 10/100/1000 Mbps adaptive RJ45 Ethernet ports. There are 3 Ethernet modes for the system. The default mode is “Single”.<br>• **Single:** LAN port interface will be used for uplink connection. WAN port is disabled.<br>• **Bridge:** LAN port interface will be used for uplink connection. WAN port interface will be used as bridge for PC connection.<br>• **Dual:** both ports can be used for uplink connection. |
| Reset Button | Press and hold for 10 seconds to restore the factory defaults. |
| Power Inlet | Connect the supplied power supply to the port. |
| Power Switch | Switch on or off the device. |



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# Installation

This chapter shows you how to install Yeastar S50 IP phone system.

## 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 cord provided with the IP PBX.
- 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 IP PBX when it is working as well as off the power.
- Before cleaning the device, cut off the power supply.

**Environment**

Install the Yeastar S50 IP PBX 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).

## Module Installation

Yeastar S50 supports installing up to 4 modules. The optional modules are as below:

- S2 Module
- O2 Module
- B2 Module
- SO Module
- GSM Module
- 3G Module

**NOTE**

Before installing the module, please check if the module is clean and intact.



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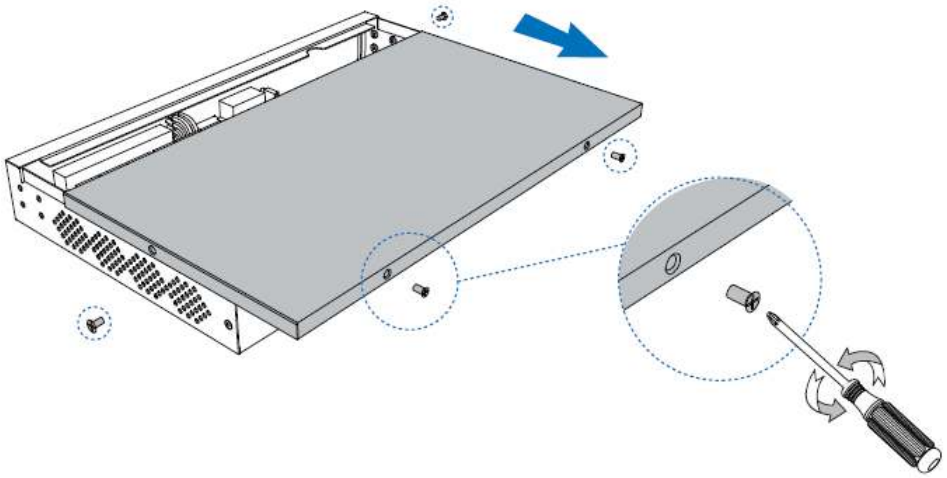
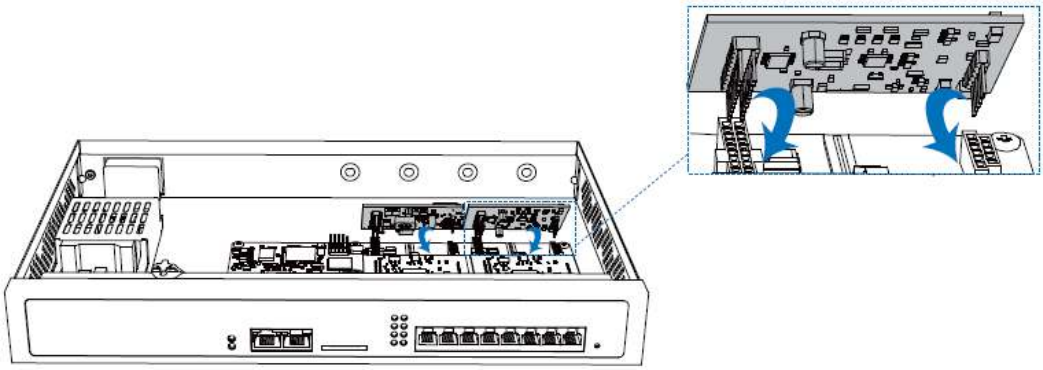
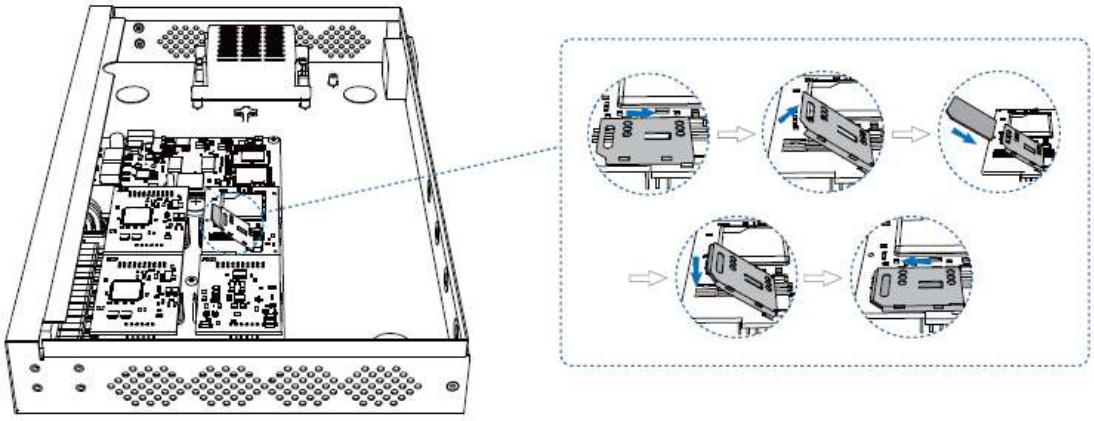
**STEP 1** Loosen the screws on the enclosure and then remove the upper cover.



**STEP 2** Insert the module to the Module Slot.



**STEP 3** Insert a SIM card on the GSM/3G module following the instructions. Skip this step if no GSM/3G module installed.





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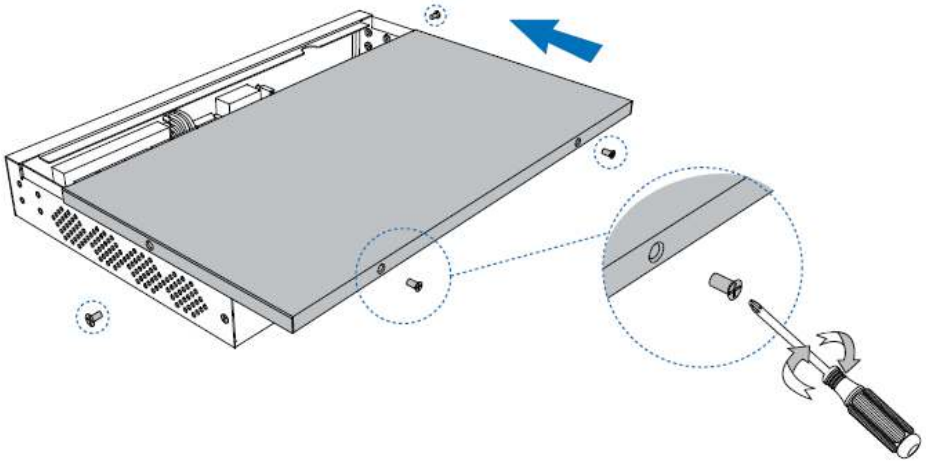
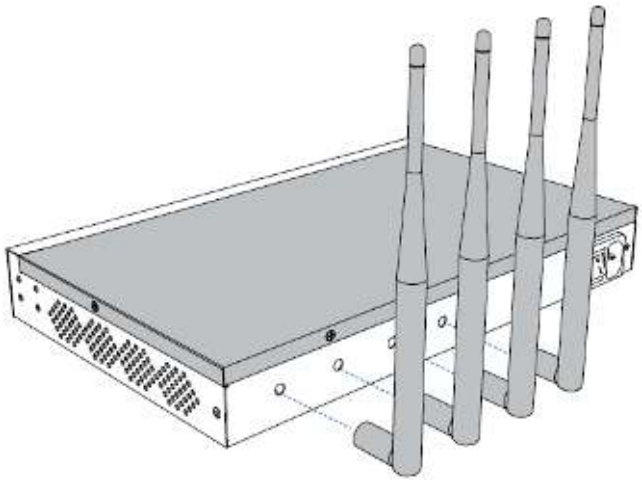
**STEP 4** Close the cover and fix the screws.



**STEP 5** Rotate the antenna into the Antenna Socket.
Skip this step if no GSM/3G module installed.





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## Desktop Installation

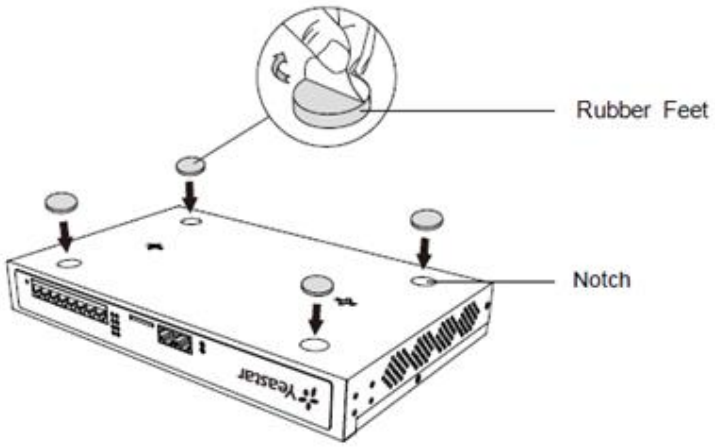
**WARNING**

- Please set 5~10cm gaps around the device for air circulation.
- Please avoid any heavy thing placed on the device.

**STEP 1** Place the IP PBX on a steady platform.

**STEP 2** Remove the adhesive backing paper from the rubber feet.

**STEP 3** Turn over the device and attach the supplied rubber feet to the recessed areas on the bottom at each corner of the device.

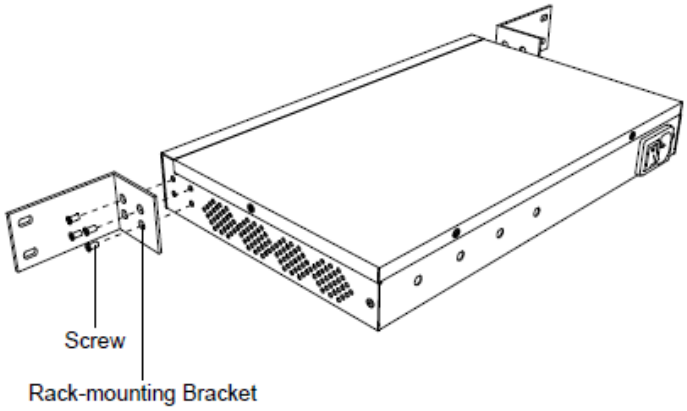



## Rack Installation

**WARNING**

- Be careful not to drop any components. Dropping components may damage them or cause an injury.
- Only use the 19-inch rack mounting kits (attached bracket and fittings) included with the PBX.

**STEP 1** Fix the brackets to the left and right sides of the PBX with 4 screws.



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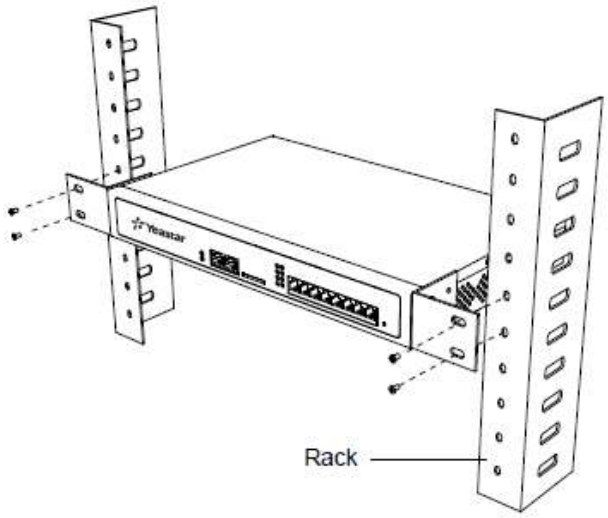
**STEP 2** Place the PBX in the 19-inch rack and fix both brackets to the rack with the rack's proprietary mounting equipment.




## Ground Connection

**WARNING**

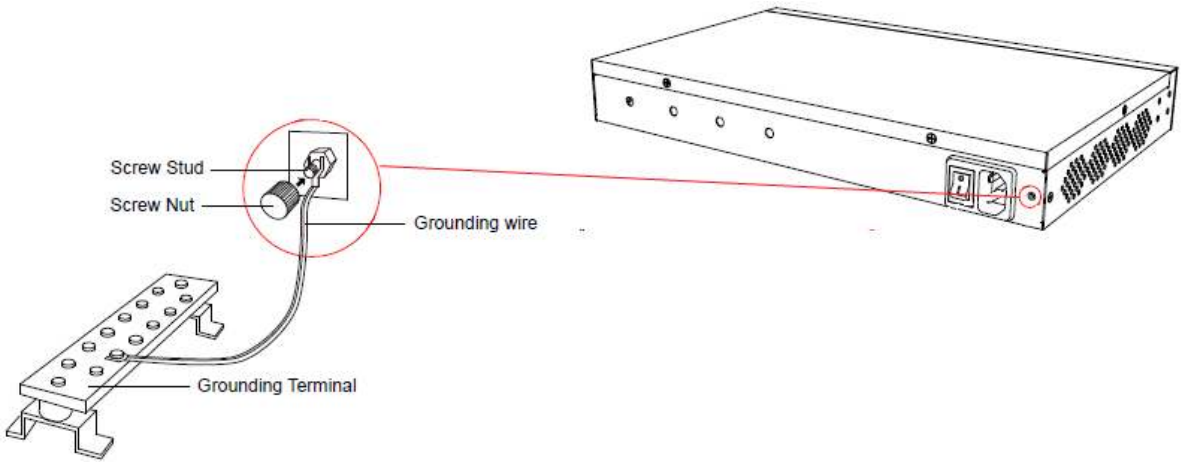
- Proper grounding (connection to ground) is very important to reduce the risk to the user of electrocution or protect the PBX from the bad effects of external noise in the case of a lightning strike.
- A permanent connection between ground and the ground terminal of the PBX must be made.

**STEP 1** Tighten the provided screw stud into the Grounding port on PBX.

**STEP 2** Insert an 18AWG grounding wire (user supplied).

**STEP 3** Tighten the provided screw nut.

**STEP 4** Attach the grounding wire to the grounding terminal.



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# Connecting the Equipment

**STEP 1** Connect one end of a network cable to the LAN port of Yeastar device, and the other end to any port of your company's LAN switch/router.

**STEP 2** Plug the provided power cord into the power jack on S50 and the other end to a standard electrical wall socket. Wait for the system to boot up till the SYSTEM LED starts to blink.

**STEP 3** Connect the telephony line to the RJ11 port of the device.

| RJ11 Port | Description |
|---|---|
| FXS | Connect one end of a RJ11 phone cable to the port. Connect the other end to the analog phone or fax machine. |
| FXO | Connect an RJ11 cable to the FXO port. Connect the other end of the cable to a PSTN line. |
| BRI | Connect the cable provided by the ISDN BRI provider to the BRI port. Connect the other end of the cable to the ISDN provider equipment. |

**NOTE**

Connect BRI/PSTN/analog phone/fax machine to the corresponding port based on the color of port indicator.



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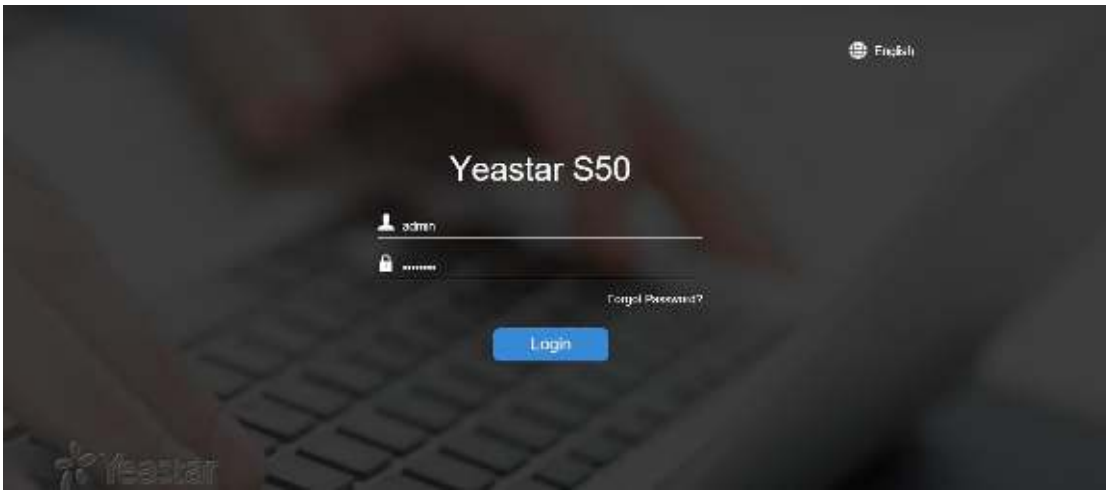
# Getting Started with the Configuration

Yeastar S50 IP Phone System provides web-based configuration interface for administrator. The administrator can manage the device by logging in the Web interface.

- **Access path:** https://192.168.5.150:8088
- **User Name:** admin
- **Password:** password

**STEP 1** Connect your PC to the same network as Yeastar S50.

**STEP 2** Start the browser on PC. In the address bar, enter the IP address, click “Enter” key and then you can see the web GUI login page shows as below.




**STEP 3** For the detailed configurations of extensions, trunks and other system settings, please refer to the manual *Yeastar S-Series Administrator Manual*.

**NOTE**

After saving the changes, remember to click the “Apply” button at the top-right corner to make the changes take effect.

[END]



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