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System Installation Guide

About this guide

This guide describes how to install Yeastar S1000-P IPPBX system on Huawei 1288H V5 server. In this guide, we also provide procedures of S1000-P system activation and expansion.

Audience

This guide is for the person who only buys Yeastar S1000-P IPPBX software, and wants to install the S1000-P IPPBX system on Huawei 1288H V5 server.

Write Yeastar S1000-P Image in a USB

If you choose to install Yeastar S1000-P IPPBX system on a physical machine, you need to write S1000-P image in the USB in advance. The instructions below introduces how to write S1000-P image in a USB via UltraISO.

- 1. Format your USB with FAT32.
- 2. Open the S1000-P image file via UltraISO.

OltralSO	(Trial Version)	- F:\work	source\ł	(2 镜像\my	ubuntu-	80.2.0.8	.iso					_		\times
File Action	s <u>B</u> ootable	Tools O	ptions	Help										
10.	8 H C	٩ د	J	۵ 🦪	3	i) (Total Size:	775MB	9	97% of 791	1MB - 1	6MB free	
Image:	Bootable CD/	/DVD 📝	1	XPD	🔁 🌣	6	Path: /							
•			File	name				Size	Туре		(Date/T	ime	^
			6	.disk				81	Folder			2016-0	8-03 23:39	
				boot				4,323 KB	Folder		2	2016-0	8-03 23:40	
				dists				551 KB	Folder		2	2016-0	8-03 23:39	
				doc				705 KB	Folder		2	2016-0	8-03 23:39	
install				EFI				2,232 KB	Folder		1	2016-0	8-03 23:40	
isolinu	×			install				290,367 KB	Folder		1	2017-11	1-07 21:51	
- ics				isolinux				1,087 KB	Folder		1	2016-0	8-03 23:40	
🖻 🛅 pool				pics				15 KB	Folder		1	2016-0	8-03 23:39	
- presee	ed			pool				491,776 KB	Folder		1	2016-0	8-03 23:39	
				preseed				5 KB	Folder		1	2016-0	8-03 23:39	
				md5eum tvt				168 KB	Tevt Docum	nent	1	2017-1	1-07 21-51	~
			<				_							>
Local:			2	P X 🗖	66 43	2	Path: C	:\Users\Yeastar	\Documents'	\My ISO	Files			
Computer My ISI Docur Docur C:) C:) C:) C:) C:) C:) C:) C:) C:) C:)	D Files ments op VD Drive(G:)		File	name				Size	Туре		[Date/T	ime	
Copyright (c)2002-2018 EZB			EZB Sy	stems, Inc.			1	mage: 3 files, 17	70 K.B		Local	t O files	, 0 KB	

3. Click Bootable > Write Disk Image.

🚳 UltralSO (Trial Version) - F:\work source\K2 镜像\myubunt) (Trial Version) - F:\work source\K2 镜像\myubuntu-80.2.0.8.iso					
File Actions Bootable Tools Options Help						
D 👌 - 👌 🖑 Make Floppy Image	2) 🕕 🛛 Total Size: 🛛 775MB	97% of 791MB - 16MB free				
Image: Make Dick Image	Path: /					
make Disk Image	Size Type	Date/Time				
boot Extract Boot Sector from Floppy/HDD drive	81 Folder 4.323 KB Folder	2016-08-03 23:39 2016-08-03 23:40				
dists Extract Boot File from CD/DVD	551 KB Folder	2016-08-03 23:39				
EFI 🔅 Load Boot File	705 KB Folder 2 232 KB Folder	2016-08-03 23:39 2016-08-03 23:40				
isolinux Save Boot File	290,367 KB Folder	2017-11-07 21:51				
Clear Boot Information	1 007 KP Folder	2016 09 02 22:40				

4. Choose your USB drive as **Disk Drive**, and choose the S1000-P image file, then click **Write**.

te Disk Image				
lessage:				Save
Time	Event			
PM 05:00:26	Windows 10 v10.0 Build 1439 (H:, 15 GB)Kingston DT Rubb)3 er 3.0		
٢				
Disk Drive: Image File:	(H:, 15 GB)Kingston DT Rubbe F:\work source\K2\myubuntu	er 3.0 .iso	✓ Verify	_
Write Method:	USB-HDD+ V			
Hide Boot Partition:	None ~		Xpress Boot	
Done:	D% Elapsed:	00:00:00	Remain:	00:00:00
Done:	0% Elapsed:	00:00:00	Remain: Speed:	00:00:00 0KB/s

5. Click **Yes** to start writing image.

Prompt		\times
?	WARNING! ALL DATA ON DRIVE (H:, 15 GB)Kingston DT Rubber 3.0 WILL BE LOST!	
	Are you sure you REALLY want to continue?	
	Yes No	

6. After the process of writing image is completed, you can check your USB drive.

The USB should contain the files as the following figure shows.

Drive (H:) >			
Name	Date modified	Туре	Size
.disk	8/3/2016 11:39 PM	File folder	
boot	8/3/2016 11:40 PM	File folder	
dists	8/3/2016 11:39 PM	File folder	
doc	8/3/2016 11:39 PM	File folder	
EFI	8/3/2016 11:40 PM	File folder	
install	11/7/2017 9:51 PM	File folder	
isolinux	8/3/2016 11:40 PM	File folder	
pics	8/3/2016 11:39 PM	File folder	
- pool	8/3/2016 11:39 PM	File folder	
preseed	8/3/2016 11:39 PM	File folder	
🥁 md5sum.txt	11/7/2017 9:51 PM	TXT File	168 KB
README.diskdefines	8/3/2016 11:39 PM	DISKDEFINES File	1 KB
ubuntu	11/7/2017 9:51 PM	File	0 KB

Set up RAID Controller Cards

RAID is a data backup technology that uses a RAID controller card to combine multiple hard drives into a virtual large-capacity hard drive, providing higher storage and I/O performance and reliability than single traditional hard drive. This topic describes how to create RAID 0 on Avago SAS3408 controller card and install drivers for this card.

- 1. Press the power button to power on the device.
- 2. When you see the startup screen shown as bellow, press **Delete** immediately to go to **Setup Utility**.



3. Enter the password as prompted, and press Enter.

Note: The default password is Admin@9000.

4. In the **Setup Utility** screen, use the arrow keys to select **Device Manager** and press **Enter**.



5. Select AVAGO MegaRAID<sas3408> Configuration Utility, and press Enter.

The main screen is displayed.

6. Go to Main Menu > Configuration Management > Create Virtual Drive.

The RAID array configuration screen is displayed as below.

AVAGO MegaRAID	<sas3408></sas3408>	Configuration	Utility -	07.01.12.03 > Creat
Save Configuration				
Select RAID Level				Save Configuration
Select Drives From				
Select Drives				Submits the changes made to
				the entire form and creates a
				parameters.
Virtual Drive Name				
Virtual Drive Size				
Strip Size	64 KB			
Access Policy				
Drive Cache	Unchanged		>	

- 7. Select a RAID level.
 - a. Use the arrow keys to select **Select RAID Level** and press Enter.
 - b. Select a RAID level **RAID 0** and press Enter.
- 8. Add member drives.
 - a. Use the arrow keys to select Select Drives From and press Enter.
 - b. Select the source of member drives and press Enter.

In this example, Unconfigured Capacity is selected.

c. Select the drive to be added and press Enter.

A hard drive is selected if its state is **Enabled**.

- d. Select Apply Changes and press Enter.
- a. Select OK and press Enter.
- 9. Save the settings.
 - a. Select Save Configuration, and press Enter.

The confirmation screen is displayed.

b. Select Confirm and press Enter.

The message "The operation has been performed successfully" is displayed.

- c. Select **OK** and press **Enter**.
- 10. Check the configuration result.
 - a. Press **Esc** to return to the previous screen.
 - b. Select Virtual Drive Management and press Enter.

Current RAID information is displayed.

Install Yeastar S1000-P IPPBX System on Huawei 1288H V5 Server

This topic describes how to install Yeastar S1000-P system on Huawei 1288H V5 Server.

Before You Begin

- Write Yeastar S1000-P image in a USB.
- Set up RAID controller card.

Step1. Prepare before installation process

Note: Do not connect Huawei Server to network, or problems may occur during the installation process.

1. Connect the USB driver to the USB 2.0 port on Huawei 1288T V5 Server.

Note:

- The USB 2.0 port is on the right side of the front panel.
- The installation process cannot work with USB 3.0.



- 2. Press the power button to power on the device.
- 3. When you see the startup screen shown as bellow, press F11 immediately to go to **Boot Manager**.



- 4. Enter the password as prompted.
 - **Note:** The default password is Admin@9000.

Enter Current Password:	
n-US (Press F2 to switch)	

- 5. Use the arrow keys to select **Boot Manager**, and press **Enter**.
- 6. Select SP OP (the name of your USB driver), and press Enter.
- 7. Select Install Ubuntu Server to install S1000-P system.



Step2. Configure language and location

The installer begins with a prompt to ask you to select a language for the installation process.

1. Select a language to be used for the installation process and installed system.



2. Select your location based on the language you selected.

[11] Onland view length
[!!] Select your location
The selected location will be used to set your time zone and also for example to help select the system locale. Normally this should be the country where you live.
This is a shortlist of locations based on the language you selected. Choose "other" if your location is not listed.
Country, territory or area:
Antigua and Barbuda Australia Botswana Canada Hong Kong India Ireland New Zealand Nigeria Philippines Singapore South Africa United Kingdom United States Zambia Zimbabwe other
<go back=""></go>

Step3. Configure the keyboard

1. Select NO, not to do keyboard layout detection.



2. Select a country of origin for the keyboard of this computer.

[!] Configure the keyboard
The layout of keyboards varies per country, with some countries having multiple common layouts. Please select the country of origin for the keyboard of this computer.
Country of origin for the keyboard:
Armenian * Azerbaijani Bambara Bangla Belarusian Belgian Bosnian Braille Bulgarian Burmese Chinese Chinese Croatian Czech Danish Dhivehi Dutch Dzongkha English (Cameroon) English (Sauth Africa) English (US) *
<go back=""></go>

3. Select the layout matching of the keyboard for your machine.

[!] Configure the keyboard
Please select the layout matching the keyboard for this machine.
Keyboard layout:
English (US)
English (US) - Cherokee
English (US) – English (Colemak)
English (US) – English (Dvorak alternative international no dead keys)
English (US) – English (Dvorak)
English (US) – English (Dvorak, international with dead keys)
English (US) – English (Macintosh)
English (US) – English (US, alternative international)
English (US) – English (US, international with dead keys)
English (US) – English (US, with euro on 5)
English (US) – English (Workman)
English (US) – English (Workman, international with dead keys)
English (US) – English (classic Dvorak)
English (US) – English (international Altur dead keys)
English (US) – English (left handed Dvorak)
English (US) - English (programmer Dvorak)
English (US) - English (right handed Dvorak)
English (US) - English (the divide/multiply keys toggle the layout)
English (US) – Russian (US, phonetic)
English (US) – Serbo-Croatian (US)
(Co. Book)
(GU DACK)

Step4. Skip network configuration

1. Select the primary network interface.



2. When you see the DHCP configuration process, press Enter key to cancel.

	Configuring	the network	with DHCP	
		4%		
This may take some	time.			
<cancel></cancel>				

You will be prompted that the network auto configuration failed, press **Enter** key to continue.



3. Select Do not configure the network at this time.

	IIII Contiduce the network
From here you car your DHCP server DHCP servers requ retry DHCP networ	n choose to retry DHCP network autoconfiguration (which may succeed if takes a long time to respond) or to configure the network manually. Some wire a DHCP hostname to be sent by the client, so you can also choose to rk autoconfiguration with a hostname that you provide.
Network configura	ation method:
	Retry network autoconfiguration Retry network autoconfiguration with a DHCP hostname Configure network manually
	Do not configure the network at this time
<go back=""></go>	

4. Select the time zone.

Eastern Central Mountain Pacific Alaska Hawaii Arizona East Indiana Samoa Select from worldwide list <go back=""></go>	[!] Configure the clock Select your time zone:	
	Eastern Central Mountain Pacific Alaska Hawaii Arizona East Indiana Samoa Select from worldwide list <go back=""></go>	

Step5. Plan and create partition disk

- 1. **Optional:** If it is not the first time to install system on the server, unmount partitions that are in use.
 - a. Select Yes to unmount the partitions.



b. Select Manual partitioning method.

[!!] Partition disks				
The installer can guide you through partitioning a disk (using different standard schemes) or, if you prefer, you can do it manually. With guided partitioning you mill still have a chance later to review and customise the results.				
If you choose guided partitioning for an entire disk, you will next be asked which disk should be used.				
Partitioning method:				
Guided - resize SCSI1 (2,0,0), partition #2 (sda) and use freed space Guided - reuse partition, SCSI1 (2,0,0), partition #1 (sda) Guided - use entire disk Guided - use entire partition, SCSI1 (2,0,0), partition #1 (sda) Guided - use the largest continuous free space Guided - use entire disk and set up LVM Guided - use entire disk and set up encrypted LVM Manual				
<go oack=""></go>				

c. Select the partition of the system.



d. Select **Yes** to create new empty partition table on this device.



- 2. Create partition 1: root directory for system files.
 - a. Select the **FREE SPACE** to create partition 1.

	IIII Partition disks				
This is an overview of your currently configured partitions and mount points. Select a partition to modify its settings (file system, mount point, etc.), a free space to create partitions, or a device to initialize its partition					
	Guided partitioning Configure software RAID Configure the Logical Volume Manager Configure encrypted volumes Configure iSCSI volumes SCSII (2,0,0)(sda) - 999.0 GB AVAGO HW-SAS3408 999.0GB FREE SPACE				
<go back=""></go>	Undo changes to partitions Finish partitioning and write changes to disk				

b. Select Create a new partition.



c. Set the partition size.

Recommended size: 50 GB.



d. Select location for the partition as Beginning.



- e. Set **Use as** and **Mount point** for the partition 1, then select **Done setting up the partition**.
 - Use as: Ext4 journaling file system
 - Mount point: /

[[!]Partition disks							
You are editing partition #1 of SCSI1 (2,0,0) (sda). This partition is formatted with Ext4 journaling file							
system. All data in it WILL B	system. All data in it WILL BE DESTROYED!						
Partition settings:							
	Name :						
	Use as:	Ext4 journaling file system					
	Format the partition:	yes, format it					
	Mount point:	/					
	Mount options:	defaults					
	Label:	none					
	Reserved blocks:	5%					
	Typical usage:	standard					
	Bootable flag:	off					
	_	1. 50.0 cm					
	Resize the partition (currently 50.0 GB)						
	Erase data on this partition						
	Delete the partition						
	Done setting up the pa:	rtition					
<go back=""></go>							

- 3. Create partition 2: home directory for data and recordings.
 - a. Select the FREE SPACE to create partition 2.



b. Select Create a new partition.



c. Set the partition size.

Note:

- 1000-minute recordings require about 1GB space.
- We recommend that you set a larger space for the partition to have more space to store your recordings and other data.



d. Select location for the partition as Beginning.



- e. Set **Use as** and **Mount point** for the partition 2, then select **Done setting up the partition**.
 - Use as: Ext4 journaling file system
 - Mount point: /home

	[!!]Part	ition disks				
You are editing partition #2 of system. All data in it WILL BE	of SCSIl (2,0,0) (sda). T 2 DESTROYED!	his partition is	formatted with	Ext4	journaling	file
1						
Partition settings:						
	Name :					
	Use as:	Ext4 journaling	file system			
	Format the partition:	yes, format it				
	Mount point:	/home				
	Mount options:	defaults				
	Label:	none				
	Reserved blocks:	5%				
	Typical usage:	standard				
	Bootable flag:	off				
	Resize the partition (currently 940.0 GB)					
	Erase data on this partition					
	Delete the partition					
	Done setting up the par	tition				
<go back=""></go>						

- 4. Create partition 3: EFI system partition.
 - a. Select the **FREE SPACE** to create a new partition.

inis is an overview of your currently configured partitions and mount points. Select a partition to modify its
settings (file system, mount point, etc.), a free space to create partitions, or a device to initialize its partition
table
Guided partitioning
Configure software RAID
Configure the Logical Volume Manager
Configure encrypted volumes
Configure iSCSI volumes
SCSI1 (2,0,0)(sda) - 999.0 GB AVAGO HW-SAS3408
1.0 MB FREE SPACE
#1 50.0 GB F ext4 /
#2 940.0 GB F ext4 /home
#3 9.0 GB FREE SPACE
Undo changes to partitions
Finish partitioning and write changes to disk
<go back=""></go>

b. Select Create a new partition.



c. Set the partition size.

Recommended size : 1.2 GB.

percentage
ntinue>

d. Select location for the partition as **Beginning**.



- e. Set **Use as** and **Mount point** for the partition 3, then select **Done setting up the partition**.
 - Use as: EFI System Partition



5. Create partition 4: swap area for storing data when system hibernates. a. Select the **FREE SPACE** to create a new partition.



b. Select Create a new partition.

[!!] Partition disks
How to use this free space:
Create a new partition Automatically partition the free space Show Cylinder/Head/Sector information
<go back=""></go>

c. Set the partition size.

Recommended size : 10 GB.



d. Select location for the partition as **Beginning**.

	[!!] Partition disks	
Please choose whether you want end of the available space.	the new partition to be created at the beginning or at the	
Location for the new partition:	:	
	<mark>Beginning</mark> End	
<go back=""></go>		

- e. Set **Use as** and **Mount point** for the partition 4, then select **Done setting up the partition**.
 - Use as: swap area

You are editing partition #2 of	[!!]Part [scsil (2,0,0) (sda). T	ition disks his partition is	formatted with Ex	t4 journaling	file	
system. All data in it WILL BE	system. All data in it WILL BE DESTROYED!					
Partition settings:						
	Name :					
	Use as:	Swap area				
	Bootable flag:	off				
Resize the partition (currently 7.8 GB)						
	Erase data on this part	ition				
	Delete the partition					
	Done setting up the par	tition				
<go back=""></go>						

6. Select Finish partitioning and write changes to disk.

	[!!]Parti	ition disks	
This is an overview of your currently con	figured partition	ns and mount poi	ints. Select a partition to modify its
settings (file system, mount point, etc.)	, a free space to	create partiti	ons, or a device to initialize its partition
table			
Guided	partitioning		
Config	are software RAID		
Config	are the Logical Vo	lume Manager	
Config	are encrypted volu	umes	
Config	are iSCSI volumes		
SCSI1	(2,0,0)(sda) - 999	0.0 GB AVAGO HW-	-SAS3408
	1.0 MB	FREE SPACE	
#1	50.0 GB F	ext4	/
#2	940.0 GB F	ext4	/home
#3	1.2 GB B K	ESP	
#4	7.8 GB	Swap	swap
	1.0 MB	FREE SPACE	-
Undo cl	nanges to partitio	ons	
Finish	partitioning and	write changes t	o disk
<go back=""></go>			

7. Select **Yes**, write the changes to disks.

[11] Partition disks	
If you continue, the changes listed below will be written to the disks. Other will be able to make further changes manually.	wise, you
The partition tables of the following devices are changed: SCSI1 (2,0,0) (sda)	
The following partitions are going to be formatted: partition #1 of SCSI1 (2,0,0) (sda) as ext4 partition #2 of SCSI1 (2,0,0) (sda) as ext4 partition #4 of SCSI1 (2,0,0) (sda) as swap	
Write the changes to disks?	
< <u>Yes></u>	<no></no>

Step6. Install the IPPBX system

After finishing partitioning and writing changes to disk, the S1000-P system starts to be installed on the server. Wait for a few minutes for the installation.

1. Select No automatic updates.

Important: Do not select other options.



2. Press Tab to select Continue to skip this step.

The system installation starts.



3. When you are prompted that the installation is completed, disconnect your USB driver, then select **Continue** to boot into your system.



When the following screen displays, the IPPBX system is successfully installed.



What to do next

Connect PBX to the network.

Connect Server to Network

After installing Yeastar S1000-P IPPBX system successfully, you can connect the Huawei server to the network.

Background information

Huawei 1288H V5 server supports 4 network interface cards (NIC): Port 1(eth0), Port 2(eth1), Port 3(eth2), and Port 4(eth3).

The following figure shows the NIC name corresponding to each network port.



The default names of network interface card (NIC) recognized by Yeastar S1000-P IPPBX are eth0 and eth1. It means you can connect a network cable to Port 1(eth0) or Port2(eth1) directly to access the network.

If you want to use Port 3(eth2) or Port 4(eth3) to connect your server to network, you need to change the NIC name to eth0 and eth1.

Change the NIC name of Port 3 and Port 4

1. Log in to your PBX with root privileges.

Note: For the root password, contact Yeastar support.

- 2. Change the NIC name.
 - a. Run command vi /etc/udev/rules.d/70-persistent-net.rules.

The NIC information is displayed as below:

SUBSYSTEM=="met",ACTION=="add",ATTR{address}=="70:fd:45:7e:34:8e"	NAME="eth0" -> Port 1
SUBSYSTEM=="net",ACTION=="add",ATTR(address)=="70:fd:45:7e:34:8f"	NAME="eth1" Port 2
SUBSYSTEM=="net",ACTION=="add",ATTR{address} =="70:fd:45:7c:34:90",	Port 3
Substated net ,Hellun== ada ,HITR(address)== "70:fd:45:?e:34:91",	NAME="eth3" Dort 4

b. Press i to edit the NIC name.

As the following figure shows, change the NIC names of Port3 and Port 4 to eth0 and eth1; change the NIC names of Port 1 and Port 2 to eth2 and eth3.



- c. Press **Esc** after editing.
- d. Run : wq to save the changes.

Log in to the Yeastar S1000-P IPPBX

After installing Yeastar IPPBX system successfully, you can log in your PBX using a local browser.

The default IP address of the PBX is 192.168.5.150. To log in the PBX, you need to make sure that your server is in the same network segment of 192.168.5.X.

1. Launch your Web browser, enter the default IP address, and press Enter.

A connection warning appears. Ignore the warning and proceed to the Yeastar IPPBX web page.

Note: Your connection is secure. The warning is caused by the certificate that is installed for remote management. You can purchase a third party trusted certificate to avoid getting this message.



- 2. Enter the default user name and password, click Login.
 - Username: admin
 - · Password: password

Activate Yeastar IPPBX

After installing the Yeastar system Software, you can try out all the PBX features free without time limit. However, the inactivated PBX has a limit on the number of extensions, concurrent calls, VoIP trunks, ring groups, etc. Contact Yeastar to buy the license according to how many extensions, concurrent calls, and other features you need on the PBX.

Limitation of an inactivated Yeastar IPPBX

Table 1.

Feature	Max number
Extension	10
Concurrent call	5

Feature	Max number
Trunk	1
Ring Group	1
RingGroup Member	1
Queue	1
Queue Member	1
Conference	1
Conference Member	1
Pickup Group	1
Paging/Intercom	1
Paging/Intercom Member	1
Speed Dial	1
Callback	1
DISA	1
Inbound Routes	1
Outbound Routes	1
SLA	1
Time Condition	1
Holiday	1
IVR	1
Blackllist-/Whitelist	1
PIN List	1
PIN List Number	1

Activate Yeastar IPPBX by USB Key

To secure your phone system, you may install a Yeastar IPPBX that has no ability to access the Internet. In this scenario, Yeastar will provide a USB license key to help you activate your PBX.

Note: The USB key is programmed with your required PBX capacity, and can be used for one device only.

! Important: If you reinstall your PBX, you need to contact Yeastar to get a new license, and reactivate your PBX.

1. Connect the USB Key to your computer where the Yeastar IPPBX is installed.

- 2. Log in the PBX web interface, go to **Maintenance > Activation**, click **Activate**.
- 3. Enter your license in the License field, click Activate.

	License	
Please input y	rour license key	
License:	ISZ&ILfJv3Pb0Gz0InrLsYVzB1HgiQeRG5mKHXiyftRQQImw6d0i	
	Activate Cancel	

4. Click **OK** and reboot the PBX to take effect.

Note: After activating the PBX, keep the USB Key connected to the PBX, or the PBX will be detected as activation abnormality.

Expand System Capacity of Yeastar IPPBX

If you need to expand the number of extensions, concurrent calls or other features, contact Yeastar to upgrade your license, and then update your license on your PBX.

Update license by USB Key

Contact Yeastar to update your license, you will get a new license, enter the new license on your PBX.

- 1. Log in the PBX web interface, go to **Maintenance > Activation** , click **Update**.
- 2. Enter your new license, click Activate.

	License	
Please input your	license key	
License:		<u>Clear</u>
	Activate Cancel	

3. Click **OK** after update.

	\times
Activation succeeded. The device's Activation Information is already updated:Extensions/Max Extensions:500/2000=>600/2000	
ОК	

Note: Keep the USB Key connected to the PBX, or the PBX will be detected as an abnormal device.