Quick Installation Guide

☑ DAG2500-48S
☑ DAG2500-72S
☑ DAG2500-96S
☑ DAG3000-32S
☑ DAG3000-312S

Thanks for Choosing Dinstar's VoIP Gateway!

Please read this guide carefully before installing the gateway. If you need any technical support, please contact us.
Tel: +86 755 61919966
Email: support@dinstar.com
Website: www.dinstar.com

1 Product Model & Number of Ports

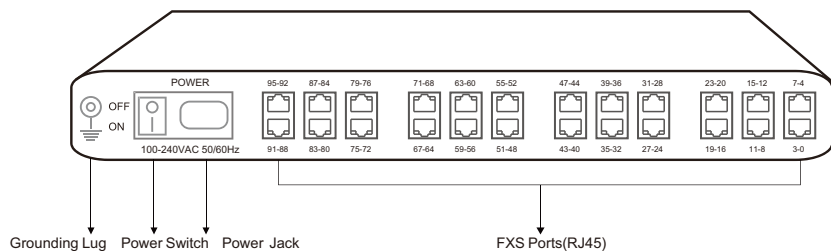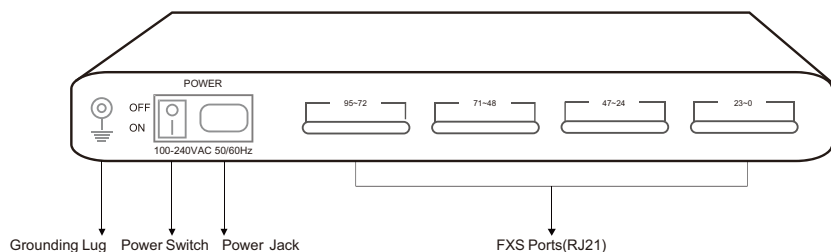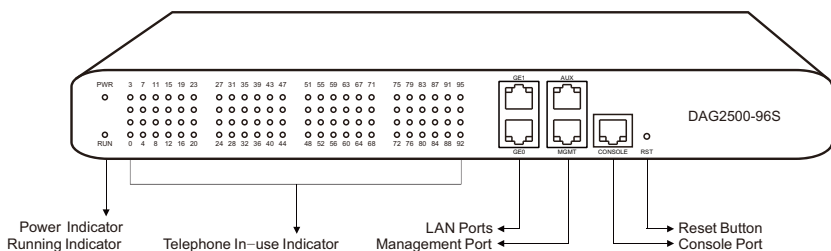| Model \ Port Type	Network Port	RJ21	RJ45
DAG2500-48S	3	2	12
DAG2500-72S	3	3	18
DAG2500-96S	3	4	24
DAG3000-32S	2	0	8
DAG3000-312S	3	13	78

- For the DAG series product, FXS Ports support two types, RJ21 or RJ45. Please check the table above for the number of ports on specific product models;

- Please confirm your product model before installation and follow the installation guideline for the model.

2 Description of Indicators

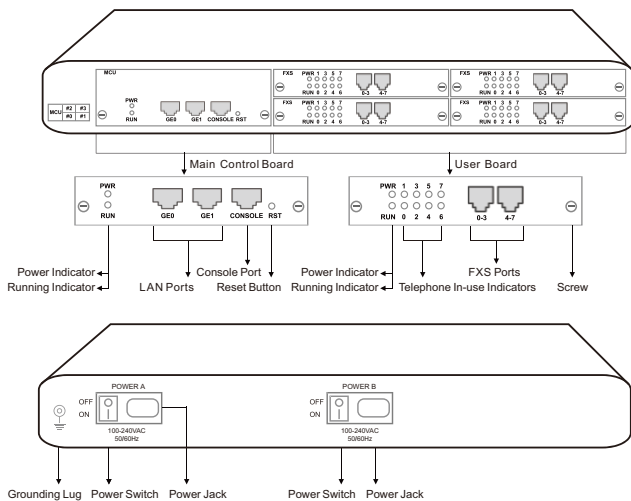| Indicator	Definition	Status	Description
PWR	Power Indicator	On	The gateway is powered on
		Off	The gateway is powered off or there is no power supply
RUN	Running Indicator	Slow Flashing	The gateway is running properly
		Fast Flashing	SIP account is registered successfully
		Off	The gateway is running improperly
FXS	Telephone In-use Indicator	On	FXS port is currently occupied by a call
		Off	FXS port is idle or faulty
MGMT	Network Link Indicator	Green Flashing	The gateway is properly connected to network
		Off	The gateway is not connected to network or network connection is improper way.
	Network Speed Indicator	On	Work at 100Mbps
		Off	Work at 10Mbps
GE0/ GE1	Network Link Indicator	Green Flashing	The gateway is properly connected to network
		Off	The gateway is not connected to network or network connection is improper way.
	Network Speed Indicator	On	Work at 1000Mbps
		Off	Work at 10Mbps

3 Indicators & Interfaces

▶ DAG2500-48/72/96S

PWR	3 7 11 15 19 23	27 31 35 39 43 47	51 55 59 63 67 71	75 79 83 87 91 95		GE1	AUX			DAG2500-96S
RUN	0 4 8 12 16 20	24 28 32 36 40 44	48 52 56 60 64 68	72 76 80 84 88 92		GE0	MGMT	CONSOLE	RST	

Power Indicator
Running Indicator   Telephone In−use Indicator   LAN Ports ←   → Reset Button
                                                             Management Port ←   → Console Port

POWER
OFF
ON
100-240VAC 50/60Hz

95~72   71~48   47~24   23~0

Grounding Lug   Power Switch   Power Jack   FXS Ports(RJ21)

POWER
OFF
ON
100-240VAC 50/60Hz

95-92 87-84 79-76   71-68 63-60 55-52   47-44 39-36 31-28   23-20 15-12 7-4
91-88 83-80 75-72   67-64 59-56 51-48   43-40 35-32 27-24   19-16 11-8   3-0

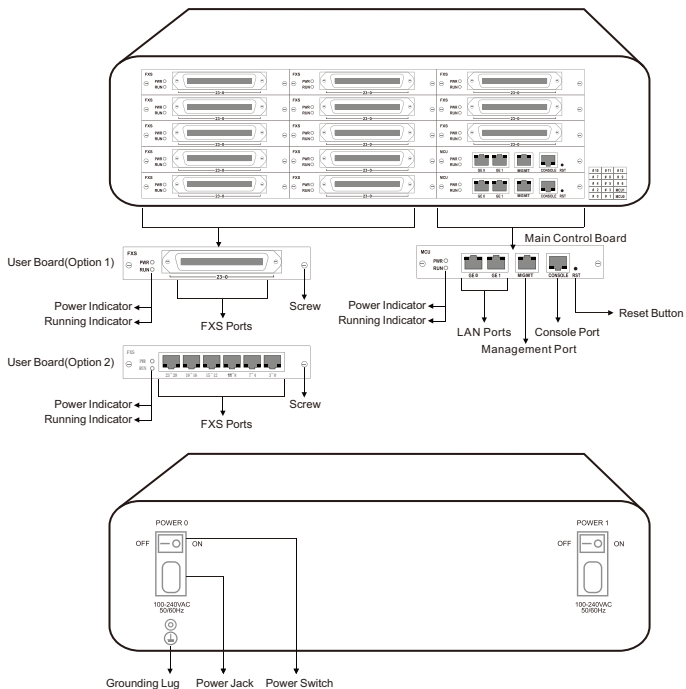Grounding Lug   Power Switch   Power Jack   FXS Ports(RJ45)

Note: DAG2500-48/72/96S has a similar physical appearance except for the different number
      of ports. And the AUX port on the front panel is a reserved interface.
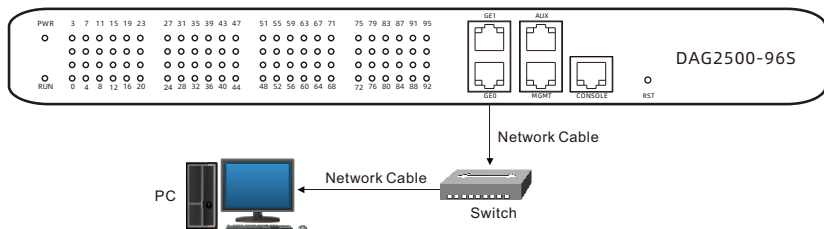
▶ DAG3000-32S

Main Control Board

User Board

Power Indicator
Running Indicator
LAN Ports
Console Port
Reset Button

Power Indicator
Running Indicator
Telephone In-use Indicators
FXS Ports
Screw

POWER A
POWER B
OFF ON
100-240VAC 50/60Hz

Grounding Lug
Power Switch
Power Jack
Power Switch
Power Jack

▶ DAG3000-312S

Main Control Board

User Board(Option 1)

Power Indicator
Running Indicator
FXS Ports
Screw

Power Indicator
Running Indicator
LAN Ports
Console Port
Management Port
Reset Button

User Board(Option 2)

Power Indicator
Running Indicator
FXS Ports
Screw

POWER 0
POWER 1
OFF ON
100-240VAC 50/60Hz

Grounding Lug
Power Jack
Power Switch

4 Installation Attentions

◆ When installing the device, please confirm the type of telephone interface of the device: The telephone interface type for the DAG2500 and DAG3000 is RJ21 or Rj45;

   * Please go to **RJ45 & RJ21** Wire Sequence of this guideline to get more information about wire sequence.

◆ Anti-jamming: to reduce the interference with telephone calls, it's highly recommended that telephone lines connected to the gateway should be placed away from power cables.

◆ Power supply: Power supply: the power adapter of the gateway accepts 100-240V AC power supply.Please ensure safe and stable power supply.

◆ Network bandwidth: please ensure there is enough network bandwidth so as to guarantee stabilized running of the gateway.

◆ Temperature and humidity: to avoid any accident that might cause malfunction, it's advised to install the gateway in an equipment room where temperature and humidity are appropriate.

◆ Ventilation   to avoid overheating, please do not pile up the gateway with other devices and make sure the gateway has good ventilation around.

◆ Mechanical load   please make sure the gateway is placed steadily to avoid damage. It's highly advised to horizontally place the gateway on a flat surface or a cabinet.
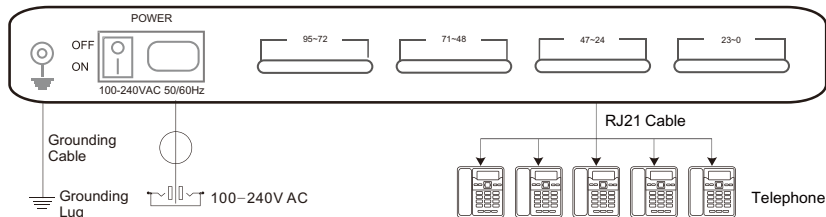

5 Installation Instructions

▶ Connection Diagram for DAG2500-48S/72S/96S

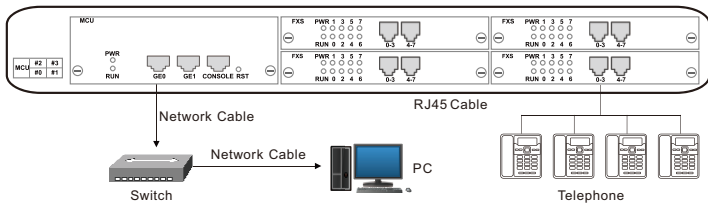● Connect gateway with network via a switch

● Connect FXS ports with analog phones, connect gateway with power input and grounding lug
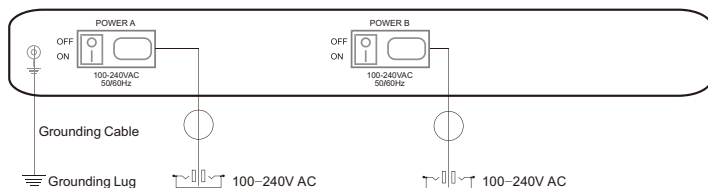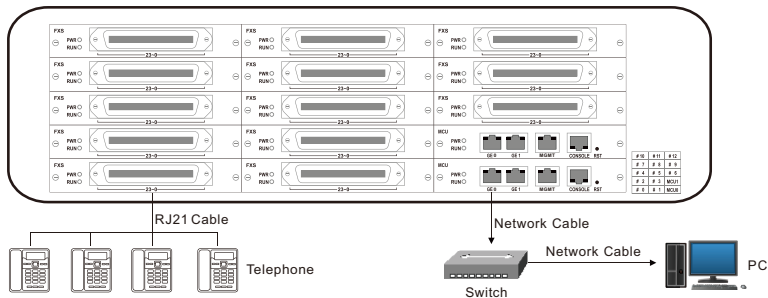
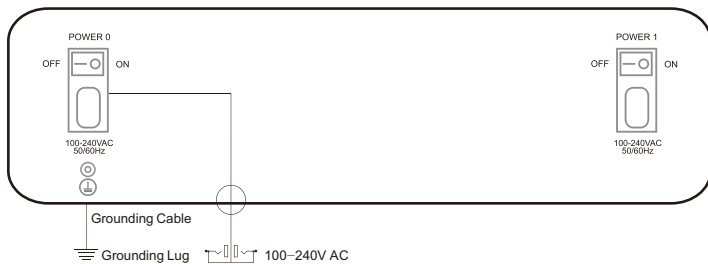## ▶ Connection Diagram for DAG3000-32S

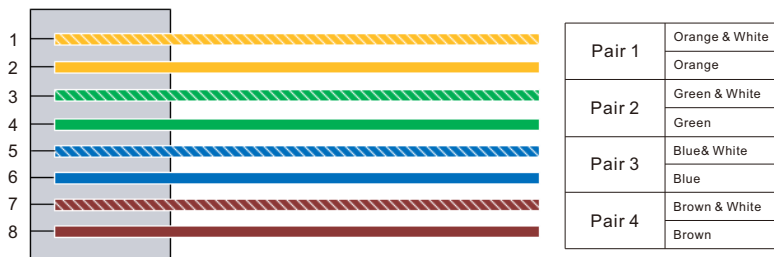● Connect gateway with network via a switch, and connect FXS ports with analog phones

Network Cable

RJ45 Cable

Network Cable

PC

Switch

Telephone

● Connect gateway with power input and grounding lug

POWER A

POWER B

OFF
ON

100-240VAC
50/60Hz

OFF
ON

100-240VAC
50/60Hz

Grounding Cable

Grounding Lug   100-240V AC   100-240V AC

▶ Connection Diagram for DAG3000-312S

● Connect gateway with network via a switch, and connect FXS ports with analog phones

RJ21 Cable

Network Cable

Network Cable

PC

Telephone

Switch

● Power Connection & Grounding

POWER 0

POWER 1

OFF   ON

OFF   ON

100-240VAC
50/60Hz

100-240VAC
50/60Hz

Grounding Cable

Grounding Lug   100-240V AC

6 RJ45 & RJ21 Wire Sequence

· RJ45 Wire Sequence

DAG2500 and DAG3000 support RJ45 Interfaces for FXS connections. One RJ45 cable can be split into four pairs of RJ11 interfaces. The outlook wire sequence of RJ45 cable is shown as follows:

Pair 1	Orange & White	
	Orange	
Pair 2	Green & White	
	Green	
Pair 3	Blue& White	
	Blue	
Pair 4	Brown & White	
	Brown	

· RJ21 Wire Sequence

DAG2500 and DAG3000 support RJ21 Interfaces for FXS connections. One RJ21 cable has 25 pairs of wires, but the 25 pair of wires never used. It means that RJ21 interface only support 24 pairs of RJ11 interfaces.
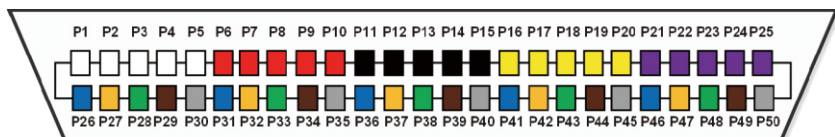
Call No.	0		1		2		3		4	
Colour	White	Blue	White	Orange	White	Green	White	Brown	White	Slate
PIN No.	P1	P26	P2	P27	P3	P28	P4	P29	P5	P30

Call No.	5		6		7		8		9	
Colour	Red	Blue	Red	Orange	Red	Green	Red	Brown	Red	Slate
PIN No.	P6	P31	P7	P32	P8	P33	P9	P34	P10	P35

Call No.	10		11		12		13		14	
Colour	Black	Blue	Black	Orange	Black	Green	Black	Brown	Black	Slate
PIN No.	P11	P36	P12	P37	P13	P38	P14	P39	P15	P40

Call No.	15		16		17		18		19	
Colour	Yellow	Blue	Yellow	Orange	Yellow	Green	Yellow	Brown	Yellow	Slate
PIN No.	P16	P41	P17	P42	P18	P43	P19	P44	P20	P45

| Call No.	20		21		22		23		24	
Colour	Violet	Blue	Violet	Orange	Violet	Green	Violet	Brown	Violet	Slate
PIN No.	P21	P46	P22	P47	P23	P48	P24	P49	P25	P50

7 Modify PC's IP Address

To log in the Web Management System of the gateway, firstly, you need to modify the IP address of PC which is used to access the gateway and to make it at the same network segment with the gateway.
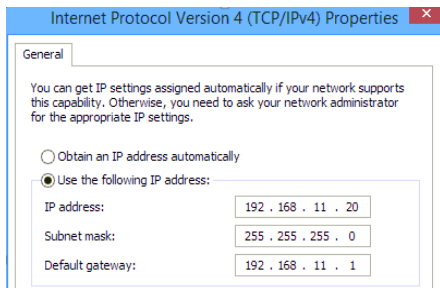
① On the PC, click '**Network (or Ethernet) → Properties**'.
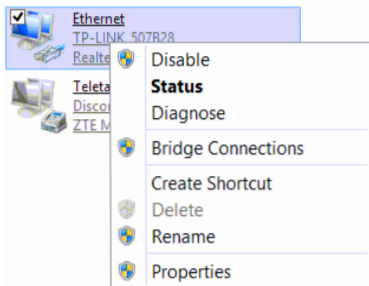
② Double-click '**Internet Protocol Version 4 (TCP/IPv4)**'.
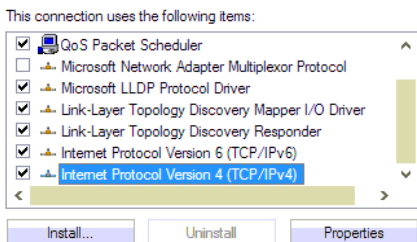
③ Select '**Use the following IP address**', and then enter an available IP address '192.168.11.XXX' which is at the same network segment with '192.168.11.1'.

8 Log in Web Management System

Enter the gateway's IP address in the browser (The default IP is 192.168.11.1).
Enter the administrator's username and password to access the Web GUI. (By default the admin password is admin)

9 Modify Gateway's IP Address

If you want to modify the IP address of the gateway, please click '**Network → Local Network**' in the navigation tree on the left of the Web Management System, and then input new IP address and DNS server address on the displayed interface.

10 Configure Gateway

(1) Configure SIP Server

Log in the Web Management System of the gateway, and then click **SIP Server** in the navigation tree and then enter the address of the SIP server which is to be registered. Click **Save** in the last.

(2) Configure SIP Account Information

Click **Port** in the navigation tree on the left, and then click **Add**. Input the SIP account and authentication password assigned by the SIP server.

Click **Save** and then restart the gateway for the new configurations to take effect.

11 Basic Operations

- ◆ Dial *158# to query the IP address of LAN port of the gateway;
- ◆ Dial *159# to query the IP address of WAN port of the gateway;
- ◆ Dial *114# to query the telephone number of a FXS port;
- ◆ Dial *165*000000# to restore default IP address, username and password;
- ◆ Restore factory default settings:
    - (1) dial *166*000000#;
    - (2) press the **RST** button for 7 seconds;then restart by manual;
    - (3) Log in the gateway and then click '**Tools → Factory Reset**' , then click **Apply** and restart the gateway.
- ◆ Restart the gateway:
    - (1) Dial *111# to restart the gateway.
    - (2) Log in Web Management System, click '**Tools → Restart**' in the navigation tree on the left, and then click **Restart** on the displayed interface.

12 More Details

This document only provides instructions for quick installation and basic configuration, For detailed configuration and parameter explanation, please refer to user manual or ask for online technical support.

IP Communication Solutions

Shenzhen Dinstar Co., Ltd.
Web: www.dinstar.com