



Quick Start Guide

- ☑ DAG1000-1S1O
- ☑ DAG1000-2S2O
- ☑ DAG1000-4S4O
- ☑ DAG2000-8S8O

■ Models and Ports

Port Type Model	WAN	LAN	FXS	FXO
DAG1000-1S1O	1	1	1	1
DAG1000-2S2O	1	1	2	2
DAG1000-4S4O	1	2	4	4
DAG2000-8S8O	0	3	8	8

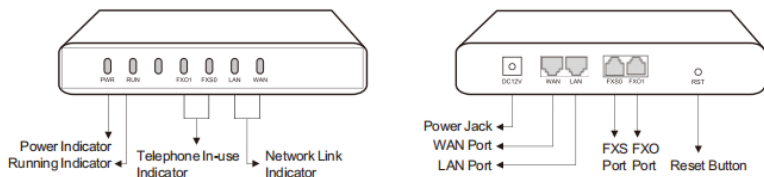
■ Description of Indicators

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	If there is a SIP account registered successfully, the indicator is fast flashing.
		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.
FXO	FXO In-use Indicator	On	FXO port is currently occupied.
		Off	FXO Port is idle or faulty.
WAN/LAN	Network Link Indicator (Green)	Fast Flashing	The gateway is properly connected to network

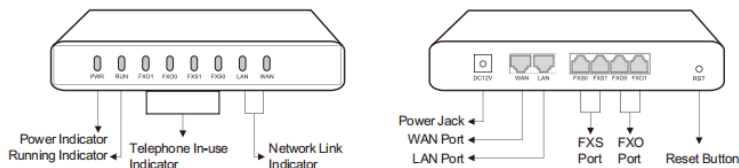
		Off	The gateway is not connected to network or network connection is improper way.
	Network Speed Indicator (Yellow)	On	Work at 100Mbps
		Off	Network speed lower than 100Mbps

■ Indicators and Ports

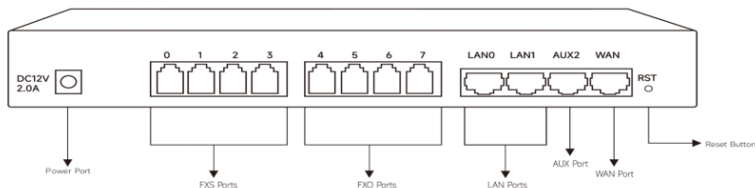
● DAG1000-1S10

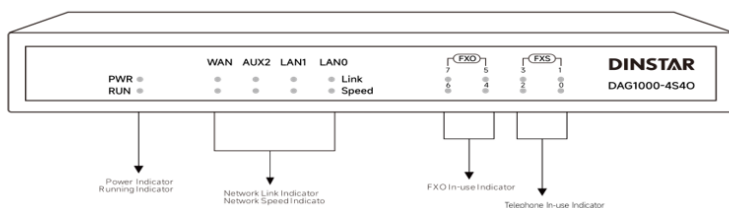


● DAG1000-2S20

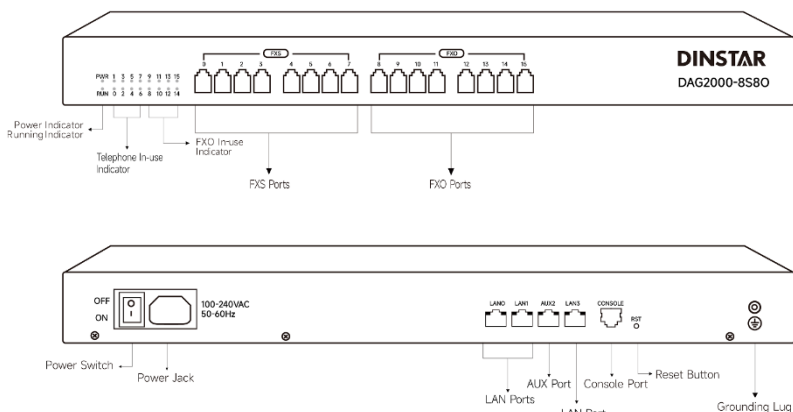


● DAG1000-4S40





● DAG2000-8S80



Note: Aux port is a reserved port

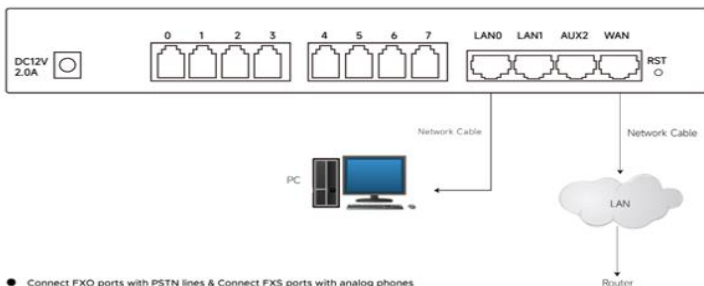
■ Installation Attentions

- (1) 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.
- (2) Network bandwidth: please ensure there is enough network bandwidth so as to guarantee stabilized running of the gateway.
- (3) Ventilation: to avoid overheating, please do not pile up the gateway with other devices and make sure the gateway has good ventilation around.

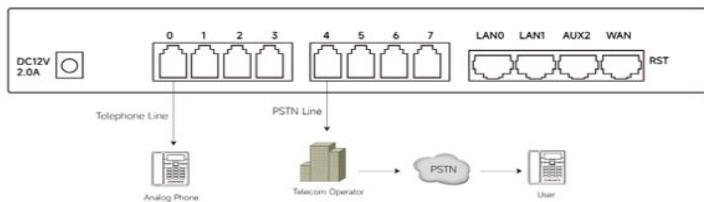
■ Installation Instructions

● DAG1000-1S10/2S20/4S40

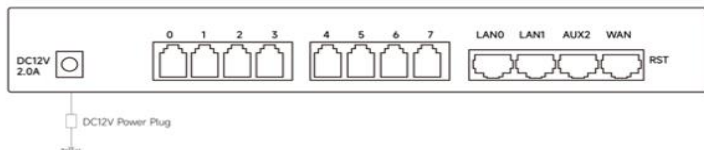
- Connect gateway with network



- Connect FXO ports with PSTN lines & Connect FXS ports with analog phones

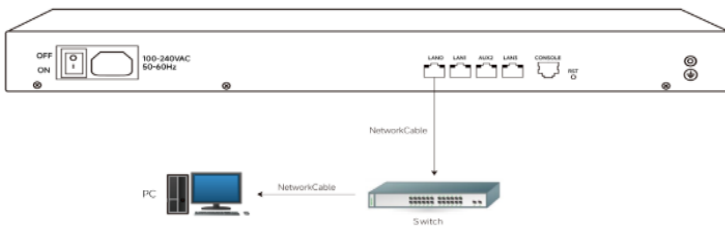


- Connect gateway with power input

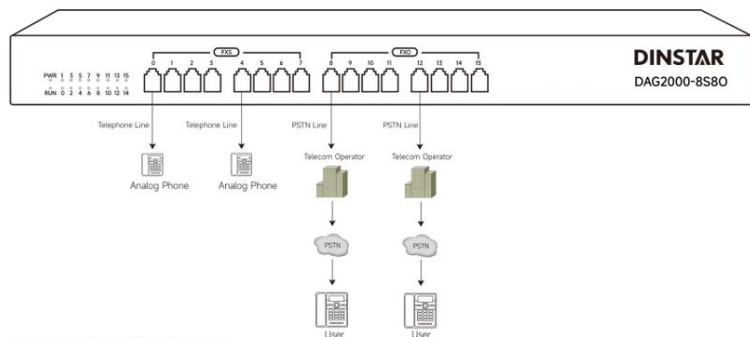


● DAG2000-8S80

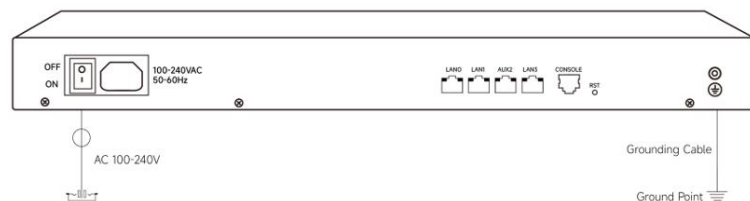
- Connect gateway with network



- Connect FXO ports with PSTN lines & Connect FXS ports with analog phones



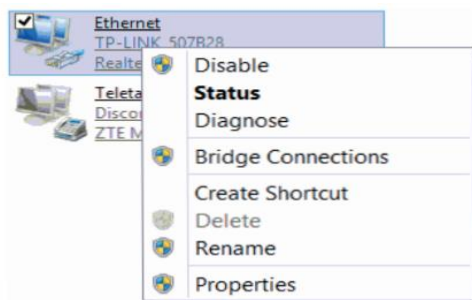
- Connect gateway with power input



■ Modify PC's IP Address

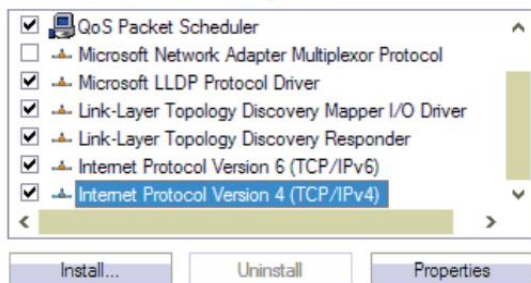
To log in the Web Management System of the gateway, you need to modify the IP address of PC first to make it at the same network segment with the DAG.

- (1) On the PC, click '**Network (or Ethernet) → Properties**'.



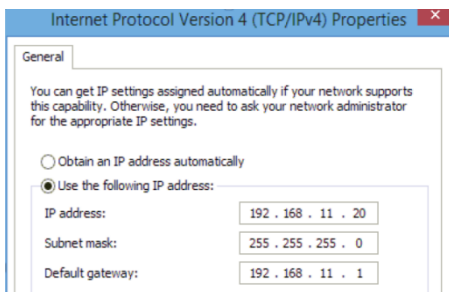
- (2) Double-click '**Internet Protocol Version 4 (TCP/IPv4)**'.

This connection uses the following items:



(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'.



■ Log in Web Management System

Open a web browser and enter the IP address of LAN which is connected to the PC (default IP is <https://192.168.11.1>).

Then, input username and password in the displayed login GUI. The default username and password are `admin/admin@123#`

■ Modify IP Address of Network Port for Services

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.

■ Basic Configurations of FXS

(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

SIP Server

IP Protocol for SIP Stack

IPv4

SIP Server

SIP Server

172.16.95.110

SIP Server Port (Default: 5060)

5060

Registration Expires (Default: 300)

300

Heartbeat

☐ Enable

Primary Outbound Proxy

Primary Outbound Proxy Address

Primary Outbound Proxy Port

5060

Secondary Outbound Proxy

Secondary Outbound Proxy Address

Secondary Outbound Proxy Port

5060

Registration

Re-registration Percent(Expires)(0: means random, range: 25%-75%)

0

Retry Interval when Registration failed

30

Registration Limit (counts/time, time: 0 means unlimited)

1 / 0

Send SIP Unregistration Request when the Device Restart

☐ Enable

MOH

☐ Enable

MOH Dial Number

--mh~u

SIP Transport Type

UDP

Local SIP Port

Use Random Port

☐ Enable

SIP UDP/TCP Local Port

5060

SIP Protocol Stack Startup Protection

Reboot After Stack Consecutive Startup Failures(0: means no reboot)

0

Times

(2) Configure SIP Account

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.

Port Add	
Port	3
Disable Port	☐
Registration	☒ Enable
IP Profile	0 <default>
Tel Profile	0 <default>
Display Name	Amy
SIP User ID	201
Authenticate ID	201
Authenticate Password	*****
Offhook Auto-Dial	
Auto-Dial Delay Time	
DND(Do Not Disturb)	☐ Enable
Caller-ID	☒ Enable
Number for CFU(Call Forwarding Unconditional)	
Number for CFB(Call Forwarding Busy)	
Number for CFNRy(Call Forwarding No Reply)	
Call Waiting	☐ Enable
Play Call Waiting Tone	☐ Enable
Call Waiting Send CID	☐ Enable

■ Basic Configurations of FXO

(1) Configure IP Trunk

On the **Call & Routing**→ **IP Trunk** interface, click Add to create an IP trunk which connects to a peer SIP server

IP Trunk Modify	
Index	311
IP Profile	0 <default>
Description	ippbx
Remote Address	172.28.8.157
Remote Port	5070
Heartbeat	☐ Enable

Save
Reset
Cancel

Note: Remote address IP protocol should match selected IP profile

(2) Configure Port Group

You are advised to divide PSTN lines into several groups and then distribute them to different

port groups. Generally, PSTN lines belonging to a same telecom operator are distributed to the same port group.

Click **Call & Routing** → **Port Group**, and then click Add on the displayed interface

Port Group Modify

Index	3
Registration	☐ Enable
IP Profile	0 <default>
Description	group
Display Name	
SIP User ID	
Authenticate ID	
Authenticate Password	
Offhook Auto-Dial	2000
Auto-Dial Delay Time	0 s
Port Select	Cyclic Ascending
Pick Up on Group	*#
Call Answer Timeout	15
Select Port Count	Cyclic Select
Port	Select Port for this Group

(3) Create Outbound Route

On the **Call & Routing** → **IP** → **Tel Routing** interface, click Add to create an outbound route for the IP trunk.

IP → Tel Routing Modify

Index	127
Description	out
Calls from	☒ IP Trunk 311 <ippbx>
	☐ IP Profile 0 <default>
Caller Prefix	any
Called Prefix	any
Calls to	☐ Port 0
	☒ Port Group 3 <group>

NOTES: 'any' in 'Called Prefix' or 'Caller Prefix' means wildcard string.

(4) Create Inbound Route

On the **Call & Routing**→<Tel→**IP/Tel Routing**> interface, click Add to create an inbound route for the IP trunk.

Tel->IP/Tel Routing Modify

Index	127	
Description	in	
Calls from	☐ Port 0	
	☒ Port Group 3 <group>	
Caller Prefix	any	
Called Prefix	any	
Calls to	☐ Port 0	
	☐ Port Group 3 <group>	
	☒ IP Trunk 311 <ipbpx>	
	☐ IP Profile 0 <default>	

Save Reset Cancel

NOTES: 'any' in 'Called Prefix' or 'Caller Prefix' means wildcard string.

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, user name and password;
- Restore factory default settings:
 - 1) dial *166*000000#;
 - 2) press the **RST** button for 7 seconds;
 - 3) Log in the gateway and then click '**Tools** → **Factory Reset**', then click Apply and restart the gateway.
- Dial *111# to restart the gateway.

More Details

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