

Grandstream Networks, Inc.

GXW42xx

Quick Installation Guide



GXW42xx - Quick Installation Guide

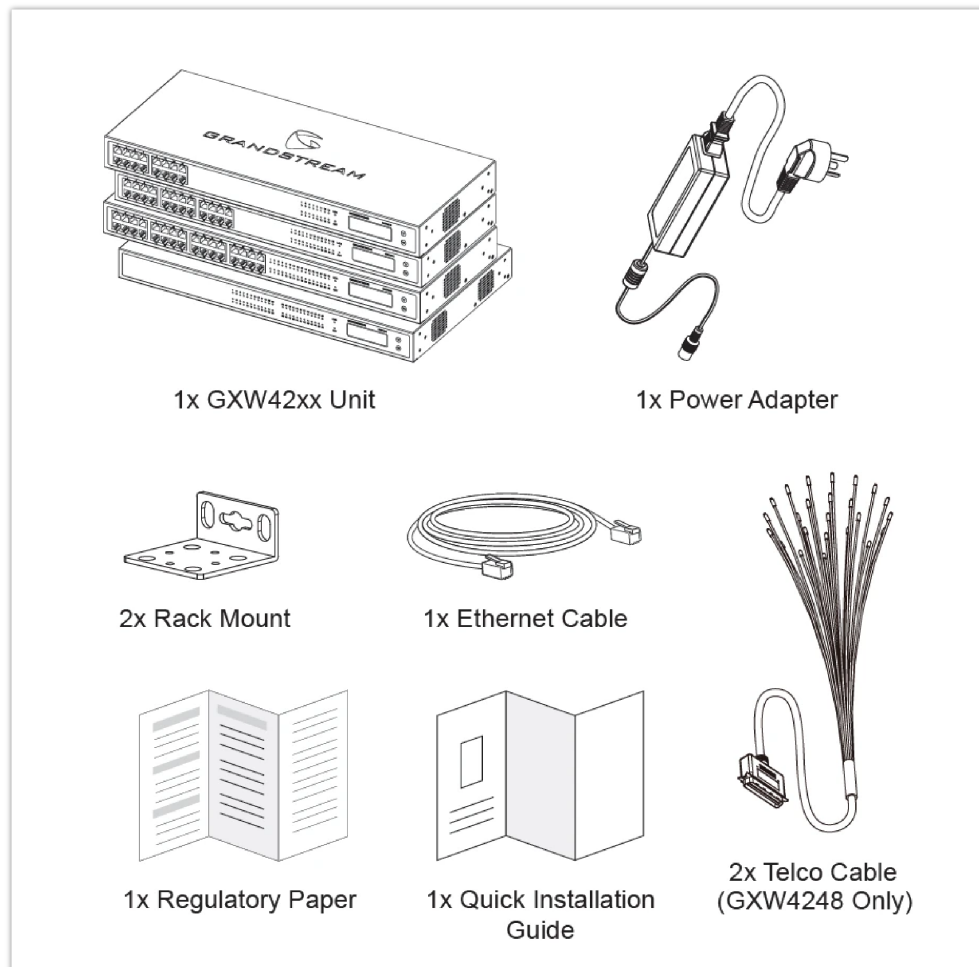
OVERVIEW

Grandstream GXW42XX series FXS Analog IP Gateway offer an easy to manage, easy to configure IP communications solution for any business with virtual and/or branch locations. The GXW42XX series support popular voice codecs and is designed for full SIP compatibility and interoperability with third party SIP providers, thus enabling you to fully leverage the benefits of VoIP technology, integrate a traditional phone system into a VoIP network, and efficiently manage communication costs. The GXW42XX series have a compact design, and offer superb audio quality, rich feature functionality, strong security protection, and good manageability. It is auto-configurable, remotely manageable and scalable.

Precautions

1. Do not attempt to open, disassemble, or modify the device.
2. Do not expose this device to temperatures outside range of 0 °C to 40 °C (in operation) and -10 °C to +60 °C (in storage).
3. Do not expose the GXW42XX to environments outside of the following humidity range: 10-90% RH (non-condensing).
4. Do not power cycle the GXW42XX during system boot up or firmware upgrade. You may corrupt firmware images and cause the unit to malfunction.
5. Please use the power supply included in the device packaging, as using other uncertified alternative power adapters may damage the device.
6. Please take lightning protection measures during installation (a lightning rod is required and the device must be reliably grounded). It is recommended to use a surge protection device.

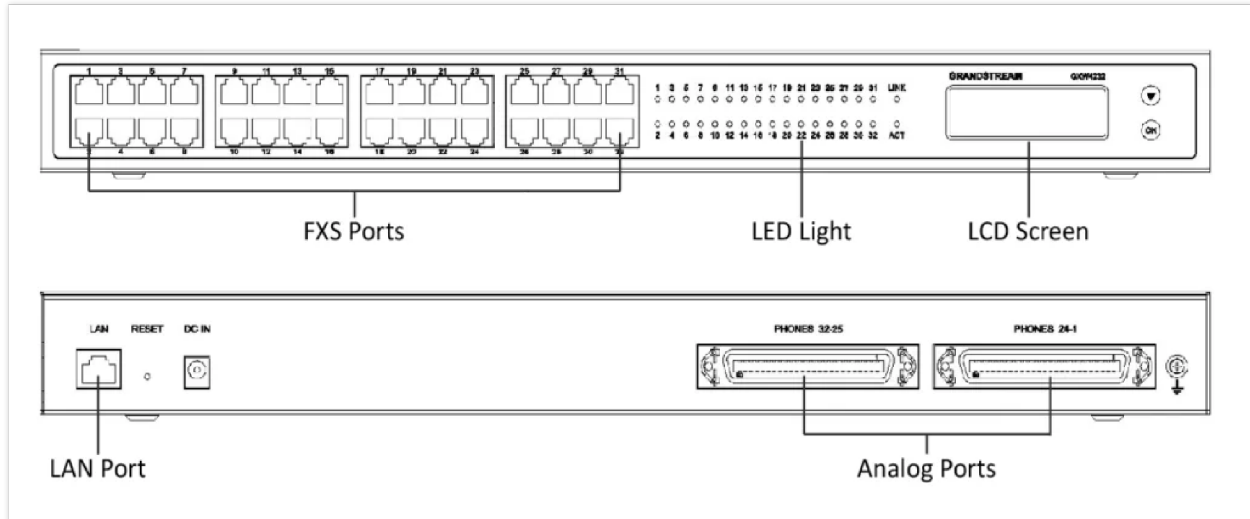
PACKAGE CONTENT



GXW42xx Package Content

CONNECTING THE GXW42XX Series

Refer to the illustration below when following the instructions on the next page.



GXW42xx Description

CONNECTING THE GATEWAY

1. Connect a standard touch-tone analog telephone (or fax machine) to the FXS analog port on the front panel. Note: The GXW4248 does not have individual FXS ports on the front panel; instead, it uses female RJ21 Telco (Amphenol) connectors on the rear panel. Use the included male RJ21 Telco cable to connect the gateway to analog devices or a patch panel. For more details, see section "Telecom Port Installation."
2. Insert the Ethernet cable into the LAN port of GXW42XX and connect the other end of the Ethernet cable to an uplink port (a router, a modem, etc.).
3. Using the embedded web server or IVR (Interactive Voice Prompt) menu, you can further configure the gateway using either a static IP or DHCP.

GXW42XX CONFIGURATION

Configure using Interactive Voice Prompt

From the analog phone, press *** to get into the IVR menu. Follow the voice instruction, and configure the setting.

Configure using embedded web server

1. From the analog phone, press *** to get into the IVR menu. Enter option 002 to obtain the Gateway's IP address.
2. Type the device's IP address in your PC browser.
3. Log in using password "admin" to configure the Gateway.

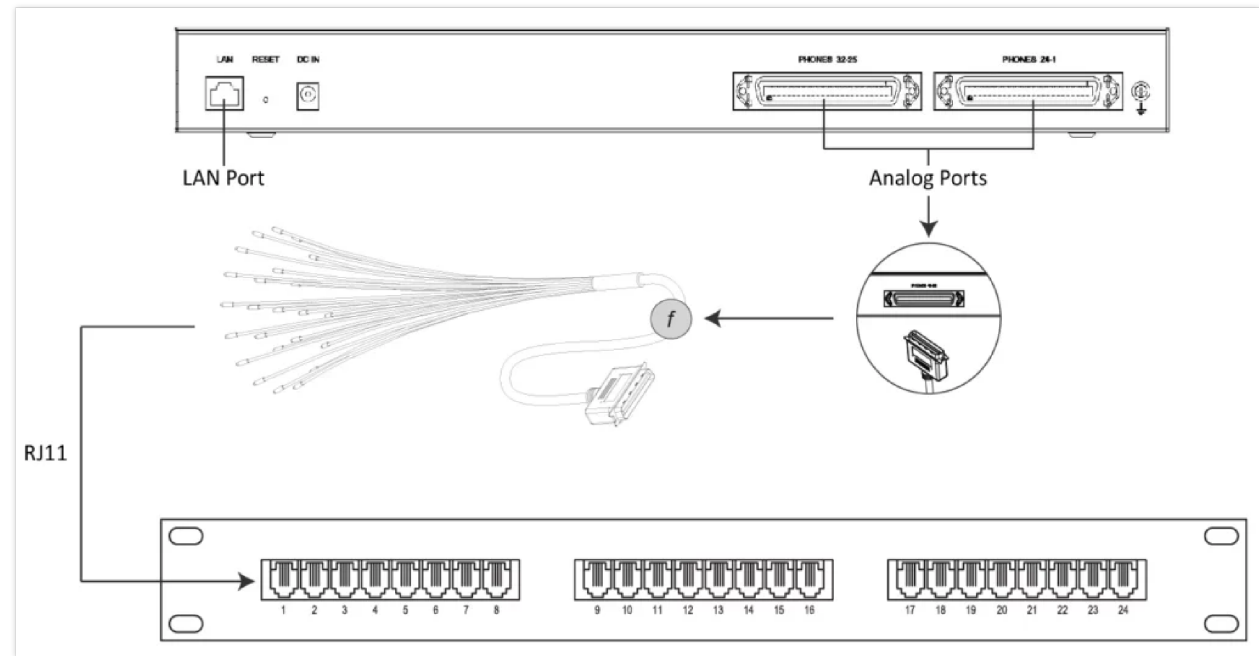
You will need the following information to configure the GXW42XX series via the web browser:

- IP address, subnet mask and gateway IP if using static IP.
- Each SIP server and/or Outbound Proxy FQDN or IP address for one Profile (4 in total).
- User subscriber information: User ID, Authentication ID, Password under FXS port label.
- Please contact your ITSP for additional settings that may be necessary to configure the device.

TELECOM PORT INSTALLATION

GXW42XX uses a 50-pin female RJ21 Telco (Amphenol) port as an alternative interface (for GXW4248, the Telco port is mandatory) for connecting analog devices such as telephones or fax machines.

When installing the Telco port, a standard male RJ21 Telco Amphenol 50-pin 25-pair cable is required (included with the GXW4248 package only). The cable can be connected to an RJ11 patch panel, which helps organize wiring in most installation scenarios.



GXW42xx Port Installation

Note:

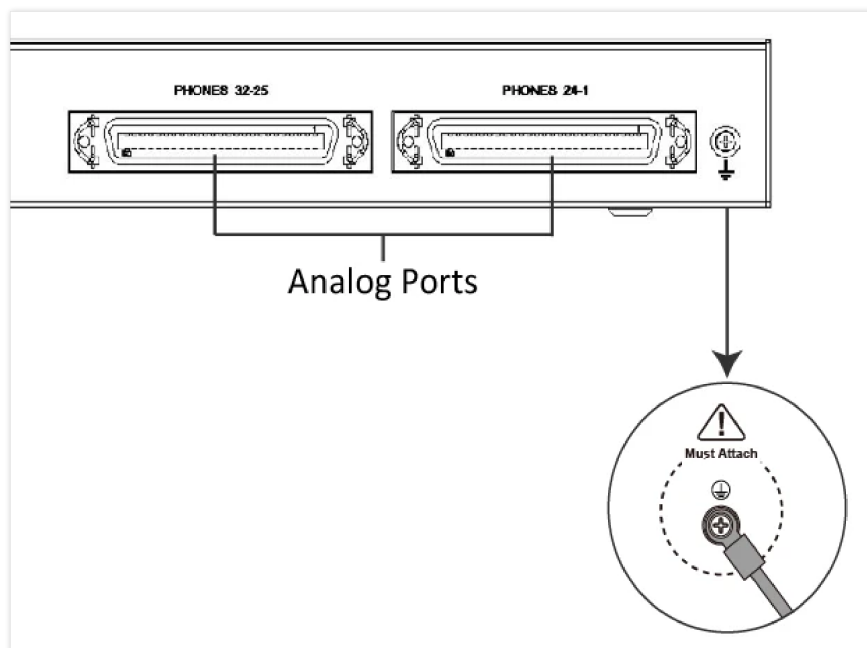
Only the GXW4248 package includes two Telco cables, each featuring a male RJ21 (50-pin) to 25 blunt pair header for direct connection to analog lines.

Following table shows the correspondent relation between the No. of each Telco cable’s RJ11 crystal head and the real FXS port number of GXW42xx.

Telecom cable RJ11 No.	GXW4216	GXW4224	GXW4232		GXW4248	
			Right	Left	Right	Left
1	1	1	1	25	1	25
2	2	2	2	26	2	26
3	3	3	3	27	3	27
4	4	4	4	28	4	28
5	5	5	5	29	5	29
6	6	6	6	30	6	30
7	7	7	7	31	7	31
8	8	8	8	32	8	32
9	9	9	9	–	9	33
10	10	10	10	–	10	34

11	11	11	11	–	11	35
12	12	12	12	–	12	36
13	13	13	13	–	13	37
14	14	14	14	–	14	38
15	15	15	15	–	15	39
16	16	16	16	–	16	40
17	–	17	17	–	17	41
18	–	18	18	–	18	42
19	–	19	19	–	19	43
20	–	20	20	–	20	44
21	–	21	21	–	21	45
22	–	22	22	–	22	46
23	–	23	23	–	23	47
24	–	24	24	–	24	48
25	–	–	–	–	–	–

To ensure proper lightning protection, install a lightning rod, reliably ground the device, and use a surge protection device as pictured below.



GXW42xx Lightning Protection and Grounding

Note:

Row "Right" indicates the righthand side telco port, when you facing the back panel of GXW42xx, and "Left" is the left telco port.

The GXW42XX Series is not pre-configured to support or carry emergency calls to any type of hospital, law enforcement agency, medical care unit ("Emergency Service(s)") or any other kind of Emergency Service. You must make additional arrangements to access Emergency Services. It is Your responsibility to purchase SIP-compliant Internet telephone service, properly configure the

GXW42XX series to use that service, and periodically test your configuration to confirm that it works as You expect. If You do not do so, it is Your responsibility to purchase traditional wireless or landline telephone services to access Emergency Services.

GRANDSTREAM DOES NOT PROVIDE CONNECTIONS TO EMERGENCY SERVICES VIA THE GXW42XX SERIES. NEITHER GRANDSTREAM NOR ITS OFFICERS, EMPLOYEES OR AFFILIATES MAY BE HELD LIABLE FOR ANY CLAIM, DAMAGE, OR LOSS, AND YOU HEREBY WAIVE ANY AND ALL SUCH CLAIMS OR CAUSES OF ACTION ARISING FROM OR RELATING TO YOUR INABILITY TO USE THE GXW42XX SERIES TO CONTACT EMERGENCY SERVICES, AND YOUR FAILURE TO MAKE ADDITIONAL ARRANGEMENTS TO ACCESS EMERGENCY SERVICES IN ACCORDANCE WITH THE IMMEDIATELY PRECEDING PARAGRAPH.

Please download the user manual and FAQ for more detailed configuration instructions:

<https://www.grandstream.com/products>