Hardware Installation Manual

AudioCodes MediaPack™ 5xx Analog Voice Gateway Series

MediaPack 502 (MP-502)

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Abbreviations and Terminology

Each abbreviation, unless widely used, is spelled out in full when first used.

Throughout this manual, unless otherwise specified, the term *device* refers to the MediaPack 504 / 508 (MP-504/MP-508) analog voice gateway.

General Notes and Warnings

Warning: The device must be installed only **indoors**.

Open-source software may have been added and/or amended. For further information, contact your AudioCodes sales representative.

Safety Precautions

- It's recommended that Ethernet and phone (FXS) cabling be routed only indoors and not exit the building.
- Do not open or dismantle the device.
- Do not expose the device to water or moisture.
- Make sure the device is installed in a well-ventilated location to avoid overheating of internal components and subsequent damage.
- Do not place any object on top of the device and make sure that sufficient clearance from the top and sides are maintained to ensure proper airflow to avoid over heating of internal components.
- Operate the device in an ambient temperature (Tma) that does not exceed 40°C (104°F).
- Use only the supplied AC/DC power adapter for connection to the power source.

Warning: In case of a malfunction, do not attempt to fix the power adapter and do not use any other type of power adapter.

Related Documentation

Document Name
MediaPack 5xx Voice Gateway Basic Configuration
MediaPack 5xx User's Manual Ver. 7.2
MSBR and MediaPack 5xx Series CLI Reference Guide Ver. 7.2

Document Revision Record

LTRT	Description
11423	Initial release

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1 Introduction

This document provides a hardware description of the device and step-by-step procedures for mounting and cabling the MediaPack 502 (MP-502), hereafter referred to as *device*.

The device provides the following port interfaces:

- **WAN Port (RJ-45):** One Gigabit Ethernet copper port supporting 10/100/1000Base-T for connection to the wide area network (WAN).
- **LAN Port (RJ-45):** One Gigabit Ethernet port (10/100/1000Base-T) for local area network (LAN) connectivity.
- **FXS Ports (RJ-11):** Two Foreign Exchange Subscriber (FXS) ports for connecting analog phones or fax devices.
- **Console Port (RJ-11):** A serial console port for device configuration and management.

2 Unpacking the Device

Follow the procedure below for unpacking the carton in which the device was shipped.

To unpack the device:

1. Open the carton and carefully remove packing materials.
2. Remove the chassis from the carton.
3. Check that there is no equipment damage.
4. Ensure that in addition to the chassis, the package contains the following items:
   - 4 x anti-slide bumpers for desktop mounting
   - 1 x AC/DC power adapter

3 Physical Description

This section provides a physical description of the device.

3.1 Physical Dimensions and Operating Environment

The device's physical dimensions and operating environment are listed in the table below:

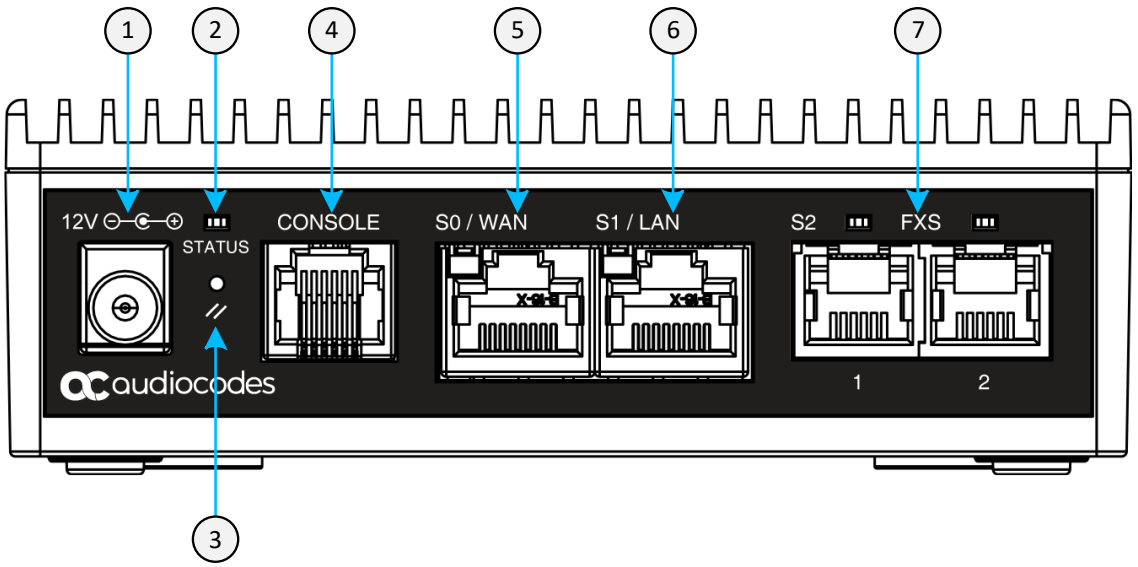
Table 1: Physical Dimensions and Operating Environment

Specification	Value
Dimensions (H x W x D)	37 x 113 x 92 mm (1.46 x 4.45 x 3.63 in.)
Weight	291 g (0.64 lbs.)
Operating Environment	■ Operating Temperature 0 to 40ºC ■ Storage Temperature -40 to 70ºC ■ Operating Humidity 5 to 95%

3.2 Physical Description of Front Panel

The front panel provides LEDs for indicating the status of various functionalities. The LEDs are shown in the figure below and described in the subsequent tables.

Figure 1: Front Panel



Callout	Label	Description
1	12V ⊖—⊙—⊕	DC power plug entry for external AC/DC power adapter.
2	**STATUS**	LED indicating power and operating status: Green On: Power on and device is operational Green Flashing: Initial rebooting stage or software upgrade in process Red On: Boot failure Off: No power

Callout	Label	Description
3	//	Reset pinhole button for resetting the device or restoring it to factory defaults: ■ **To reset device:** Using a paper clip or any other similar pointed object, press the button for at least 2 seconds (but no more than 10 seconds). ■ **To restore device to factory defaults:** Using a paper clip or any other similar pointed object, press the button for at least 12 seconds (but no more than 25 seconds).
4	**CONSOLE**	RJ-11 serial port for connecting to a computer (console) for serial communication.
5	**S0 / WAN**	Gigabit Ethernet (10/100/1000Base-T) port for connecting to WAN. The port provides a status LED: Green On: Ethernet link established Green Flashing: Data is being received or transmitted Off: No Ethernet link
6	**S1 / LAN**	Gigabit Ethernet (10/100/1000Base-T) port for connecting to LAN. The port provides a status LED: Green On: Ethernet link established Green Flashing: Data is being received or transmitted Off: No Ethernet link
7	**S2 / FXS**	FXS ports for connecting to analog equipment (telephone or fax). Each port provides a status LED: Green On: Phone is in off-hook state Red On: Line malfunction Off: Phone is in on-hook state

4 Mounting the Device

You can mount the device using one of the following methods:

- Desktop mounting – see Desktop Mounting
- Wall mounting – see Wall Mounting

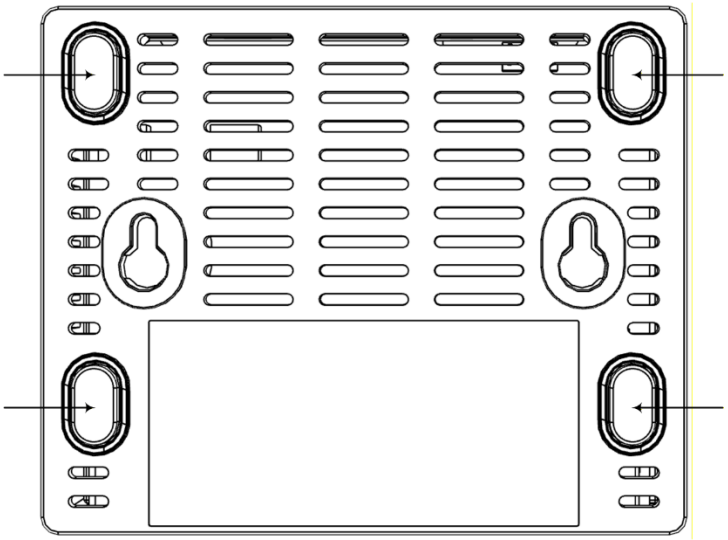
4.1 Desktop Mounting

You can place the device on a desktop or a flat surface.

The bottom of the device has four designated grooves for installing the four supplied anti-slide bumpers. Attach one bumper into each groove. The bumpers help prevent the device from sliding on the desktop and improve airflow underneath the device for proper cooling.

Do not place any objects on top of the device, as this may reduce ventilation and cause overheating.

The locations of the grooves are shown in the following figure:



4.2 Wall Mounting

You can mount the device on a wall using the two keyholes located on the bottom.

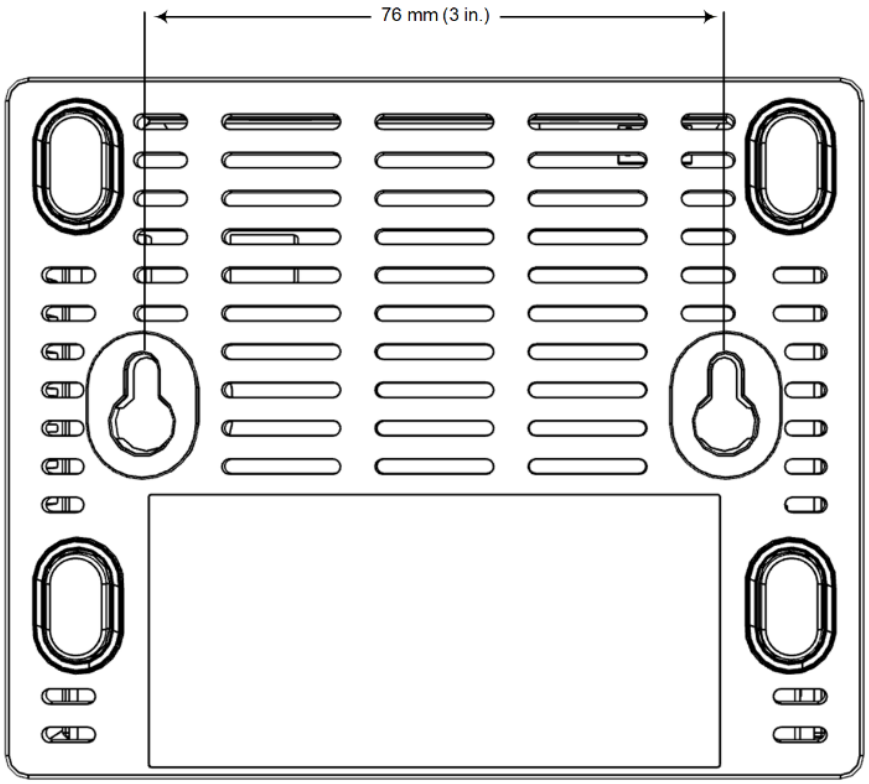
This unit is designed for wall mounting at a **maximum** height of 2 meters (6.5 feet) or less from the floor.

When choosing the area on the wall to mount the device, make sure sufficient space is available for attaching the cables on the front panel.

To mount device on a wall:

1. Mark the drilling points on the wall where you want to mount the device. They should be horizontal points of 76 mm (3 in.) apart, center-to-center.

Figure 2: Dimensions for Drilled Holes

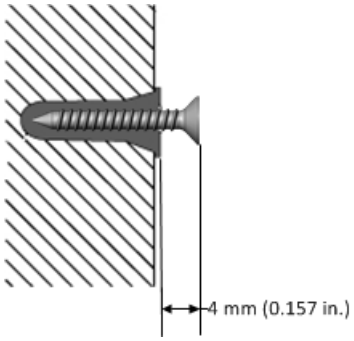


Make sure the marks are level so the device will hang straight.

2. Drill two holes at the marked positions using a drill bit suitable for the wall material.
3. Insert appropriately sized wall anchors into each drilled hole. Make sure the anchors are fully seated and flush with the wall surface.

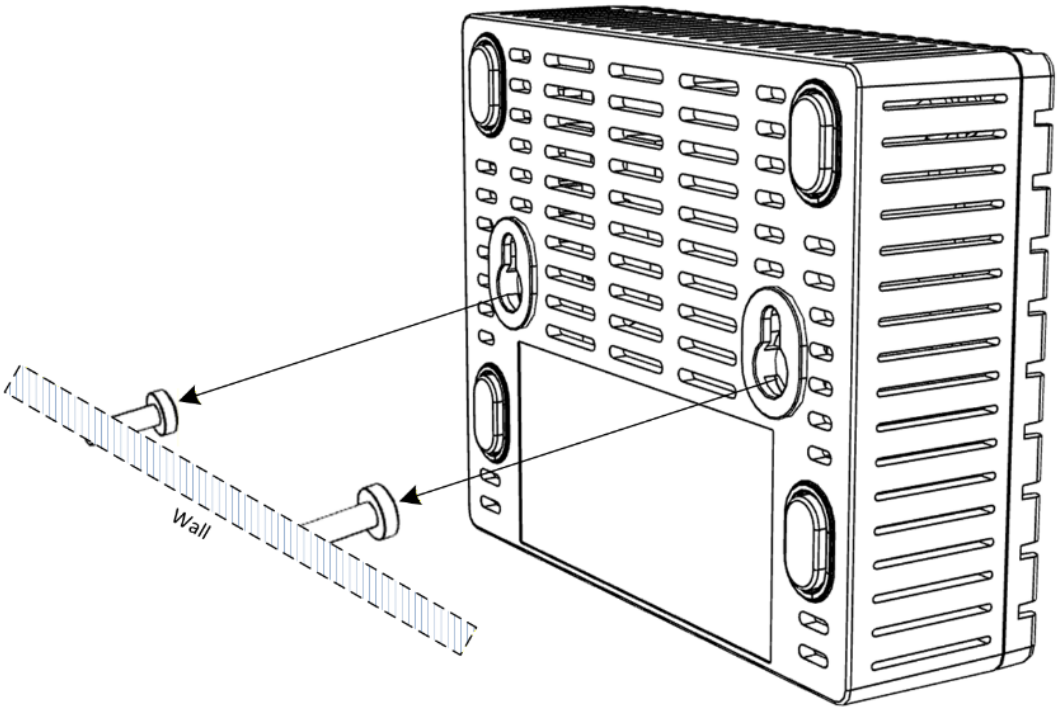
4. Thread a screw (not supplied) into each wall anchor, leaving the screw heads protruding approximately 4 mm (0.157 in.) from the wall. The recommended screw type is DIN 7982 3.5 x 25 mm Phillips flat head.

Figure 3: Protruded Screw Distance from Wall Surface



5. Hold the device with the keyholes facing the wall and the front panel ports facing downward toward the floor.
6. Align the wide openings of the device's keyholes with the screw heads. Place the device over the screws, then gently slide it downward until it locks securely into the narrow sections of the keyholes.

Figure 4: Hanging Device on Screw Heads



5 Cabling the Device

This chapter describes device cabling.

5.1 Connecting LAN Interface

The device provides a Gigabit Ethernet LAN port (1000Base-T), which you can connect to a network equipment, for example, a computer, a switch, or an IP phone.

Cable specification:

- **Cable:** straight-through Cat-5 cable
- **Connector:** RJ-45
- **Connector Pinouts:**

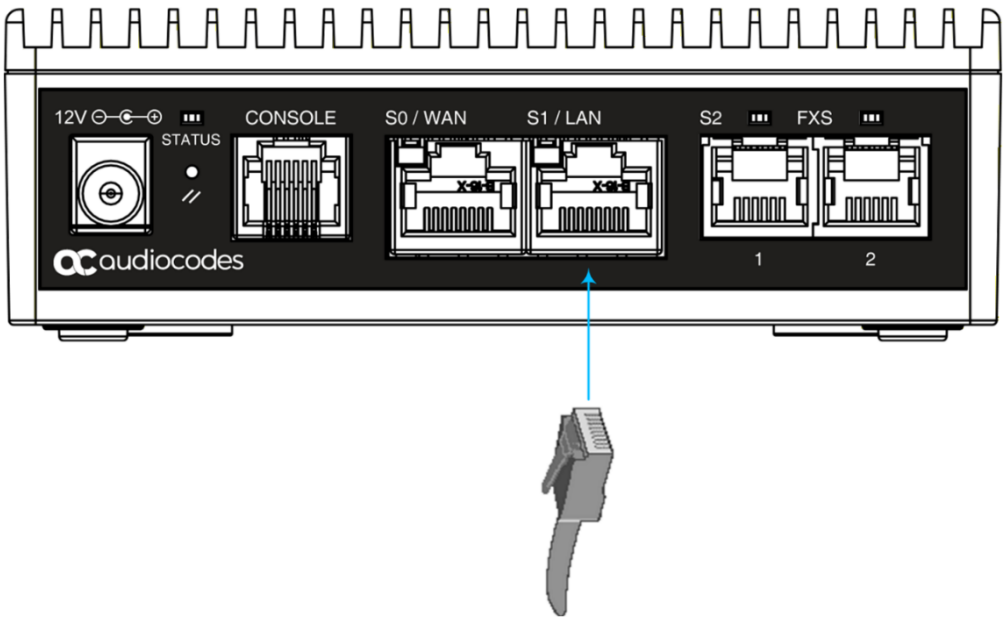
Table 2: RJ-45 Connector Pinouts for GE LAN

Pin	Signal Name
1	Ethernet signal pair
2	
3	Ethernet signal pair
6	
4	Ethernet signal pair
5	
7	Ethernet signal pair
8	

To connect to LAN:

1. Connect one end of a straight-through RJ-45 cable to the RJ-45 port labeled **S1 / LAN**.

Figure 5-1: Connecting LAN



2. Connect the other end of the RJ-45 cable to the Gigabit Ethernet network.

5.2 Connecting WAN Interface

The device provides a copper Gigabit Ethernet (GbE) port interface for connecting to the WAN.

Cable specification:

- **Cable:** straight-through Cat-5 cable
- **Connector:** RJ-45
- **Connector Pinouts:**

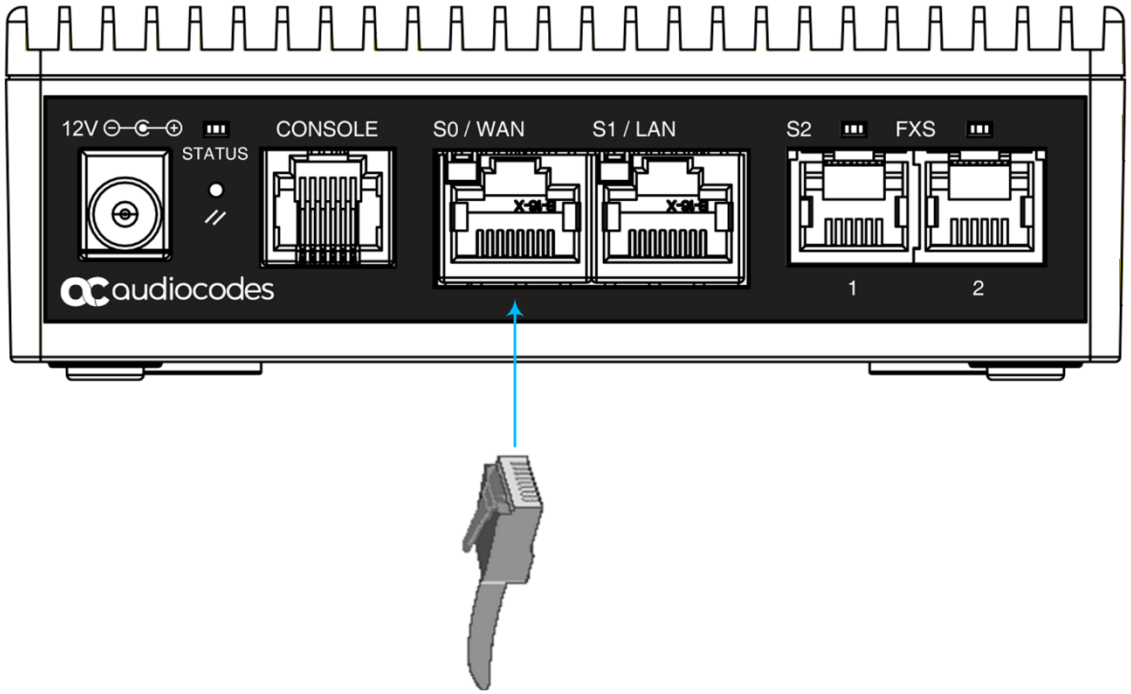
Table 3: RJ-45 Connector Pinouts for Copper GbE WAN

Pin	Signal Name
1	Ethernet signal pair
2	
3	Ethernet signal pair
6	
4	Ethernet signal pair
5	
7	Ethernet signal pair
8	

To connect to WAN:

1. Connect one end of a straight-through RJ-45 Ethernet cable to the RJ-45 port labeled **S0 / WAN**.

Figure 2: Cabling WAN Copper GbE Port



2. Connect the other end of the cable to the WAN network (e.g., ADSL or Cable modem).

5.3 Connecting FXS Interfaces

The procedure below describes how to cable the device's FXS interfaces. FXS is the interface replacing Private Branch Exchange (PBX), and connects to analog telephones, dial-up modems, and fax machines. The FXS port interface is designed to supply line voltage and ringing current to these telephone devices.

- The device must be installed and located only indoors.
- Connect the FXS ports only to certified phone devices; otherwise, damage to the device may occur.
- Keep phone (FXS) cabling routed only within the building away from any power cabling.
- Routing FXS wiring outside the building may damage the port due to surge phenomena.
- The FXS ports are considered ES2 (TNV-2); avoid contact with any exposed wiring.

Cable specification:

- **Cable:** Standard straight-through RJ-11 telephony cable
- **Connector:** RJ-11
- **Connector Pinouts:**

Figure 3: RJ-11 Connector Pinouts for FXS Interfaces

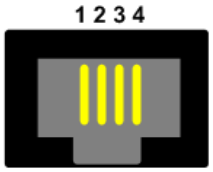


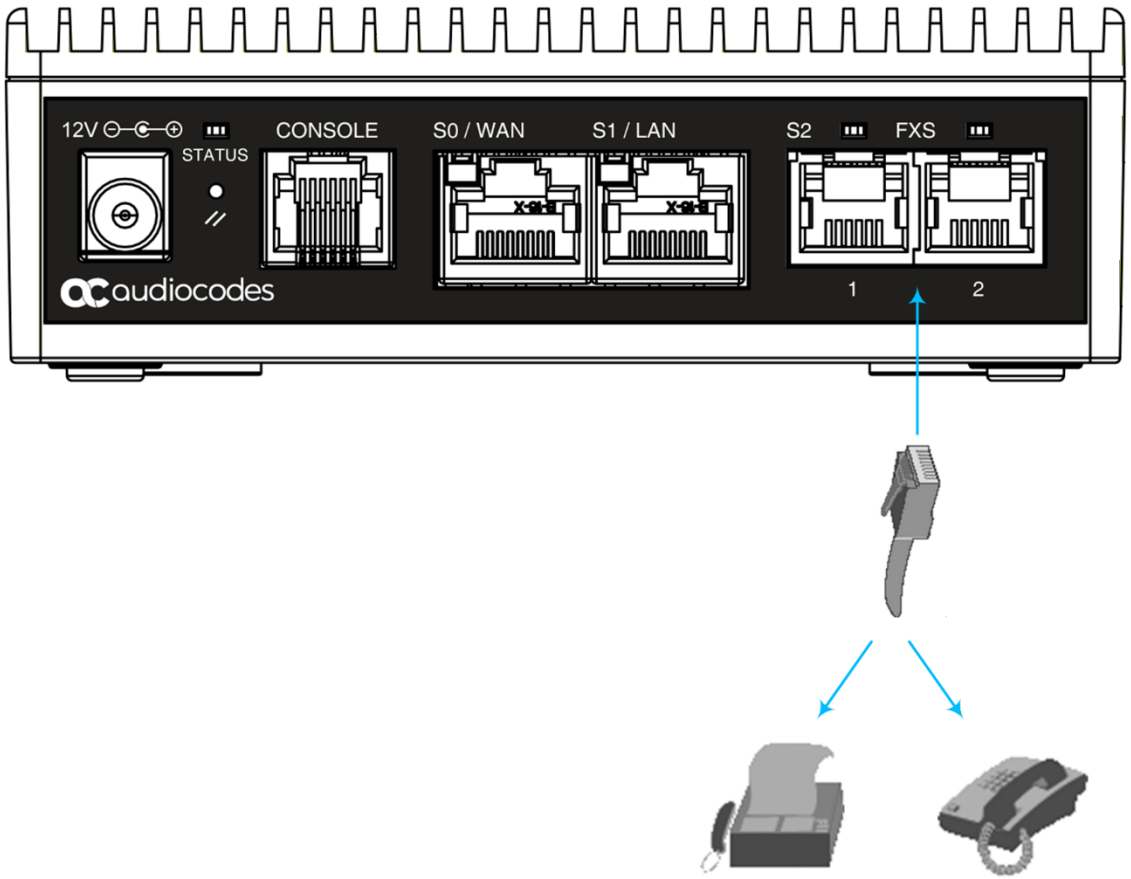
Table 4: RJ-11 Connector Pinouts

Pin	Description
1	Not connected
2	Ring
3	Tip
4	Not connected

To connect to FXS equipment:

1. Connect one end of an RJ-11 cable to one of the FXS ports, labeled **FXS** (**1** and **2**).

Figure 4: Cabling FXS Interfaces



2. Connect the other end of the cable to the required telephone interface (e.g., fax machine, dial-up modem, or analog POTS telephone).

5.4 Connecting Serial Interface

The device provides an RJ-11 port for connecting to the serial interface. This is used to access the device's command-line interface (CLI).

Cabling is done using a straight-through RJ-11 connector cable and a USB-to-UART bridge adapter. The RJ-11 cable connects the device's serial port to the UART side of the adapter and the USB side of the adapter is then plugged into your computer's USB port.

Figure 5-5: USB-to-UART Adapter

The RJ-11 cable is for console only. This is a non-standard RJ-11 cable utilizing 6 pins.

Cable specification:

- **Cable:** straight-through cable
- **Connector:** RJ-11 to RJ-11
- **Connector Pinouts:**

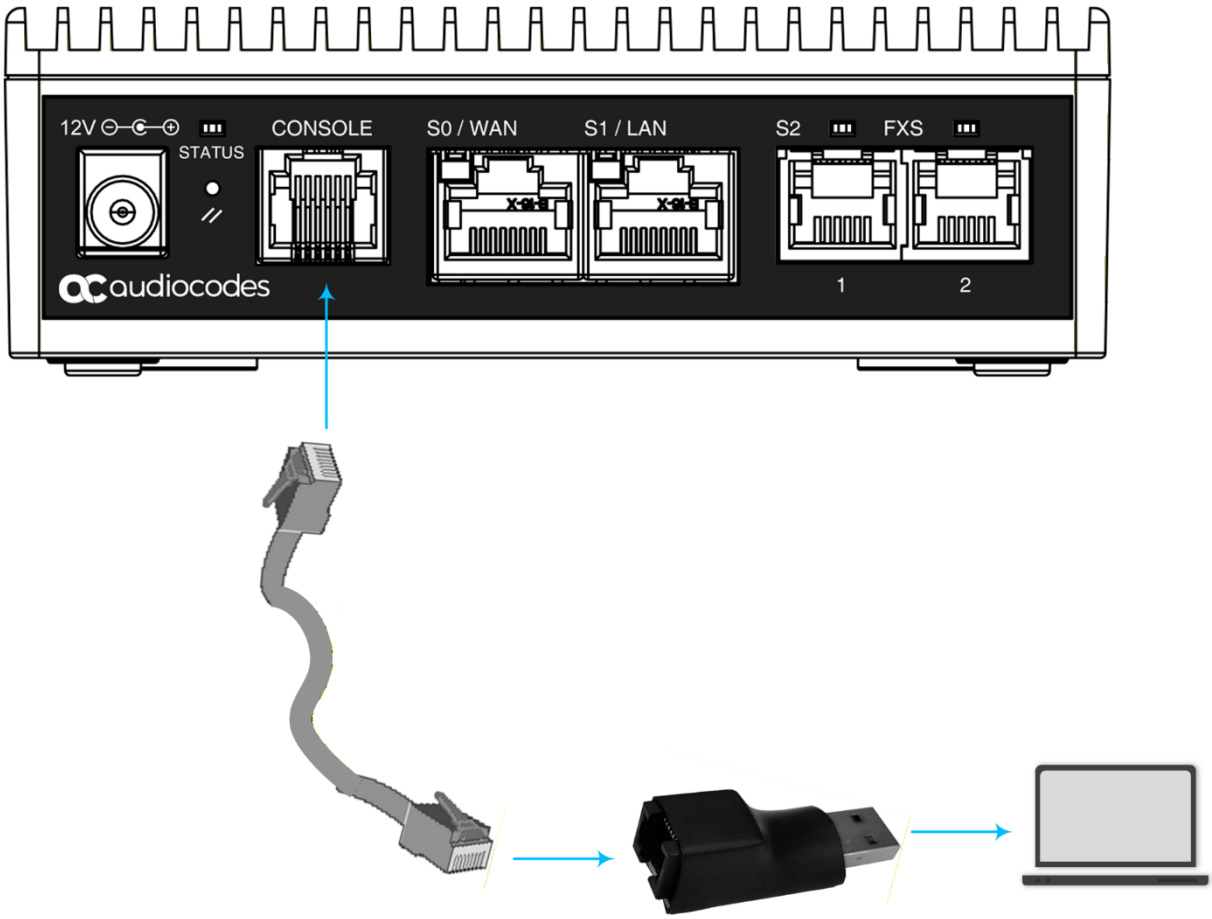
Table 5: RJ-11 Connector Pinouts

Pin	Description
1	UART RX0
2	UART TX0
3	Power (VCC)
4	Ground (GND)
5	UART RX1
6	UART TX1

To connect serial interface:

1. Connect the RJ-11 connector at one end of the straight-through cable to the device's serial port, labeled **CONSOLE**.
2. Connect the RJ-11 connector at the other end of the straight-through cable to the RJ-11 port on the USB-to-UART bridge adapter.
3. Plug the USB-to-UART adapter into your computer's USB port.

Figure 5-6: Cabling Serial Port



5.5 Connecting to Power

The device is powered by an external AC/DC power adapter (supplied), which connects to a standard alternating current (AC) electrical wall outlet.

Table 6: Power Specifications

Item	Description
Power Supply	Single universal external AC power supply
Input Ratings	100-240V, 50-60Hz, 0.6A
Output Ratings	12V/2A

Warning: Use only the AC/DC power adapter supplied with the device.

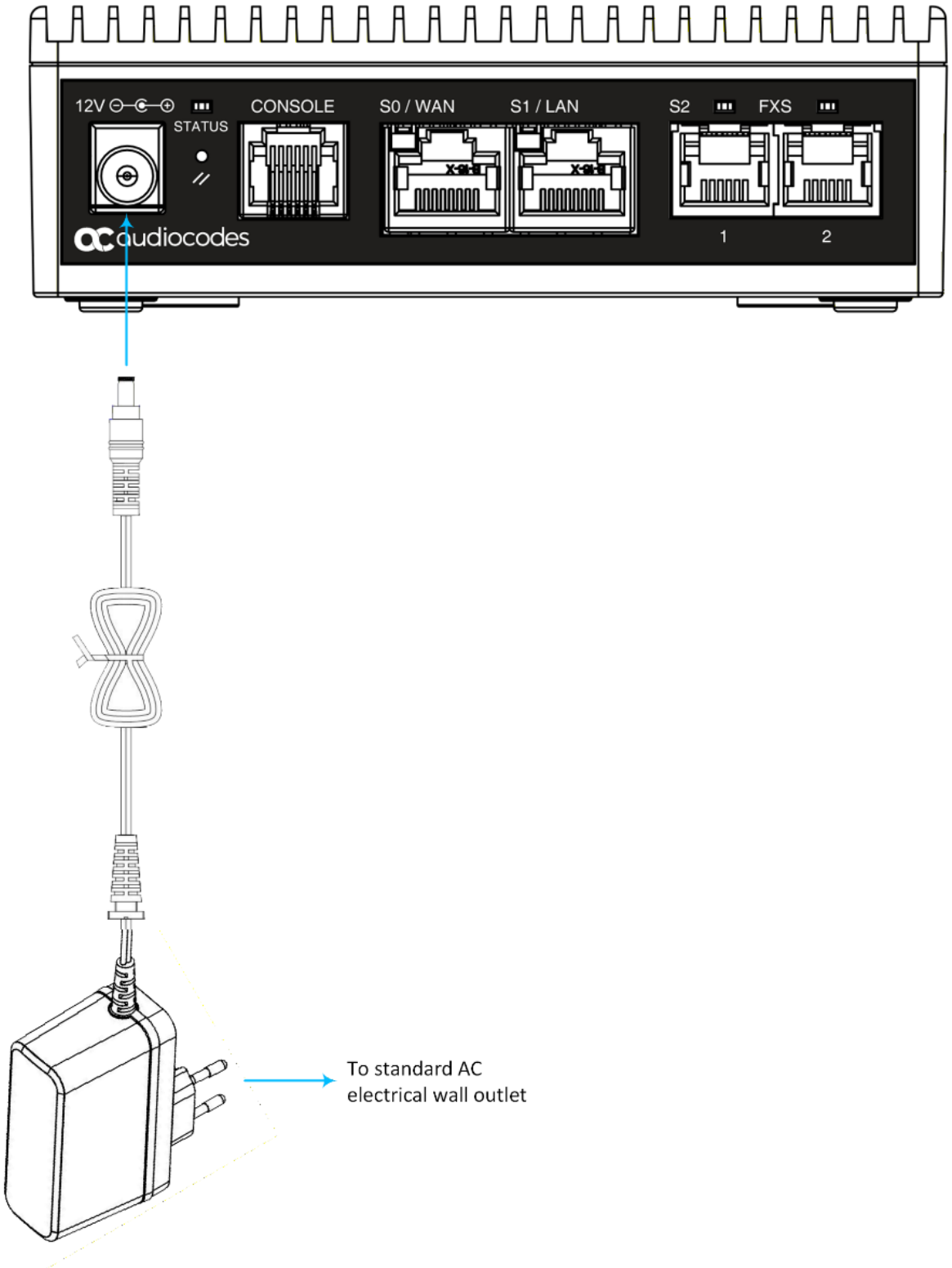
Warning: Do not open or service the AC/DC power adapter. If it's broken, do not use it and do not plug it into the electrical wall socket; contact AudioCodes for a Return Material Authorization (RMA).

Note: For Pluggable Equipment, the socket-outlet shall be installed near the equipment and shall be easily accessible.

To connect device to power:

1. Plug the adapter's cord into the device's power socket located on the rear panel.

Figure 7: Connecting to Power



2. Connect the AC power adapter to a standard electrical wall outlet.

International Headquarters
Naimi Park
6 Ofra Haza Street
Or Yehuda, 6032303, Israel
Tel: +972-3-976-4000
Fax: +972-3-976-4040

AudioCodes Inc.
80 Kingsbridge Rd
Piscataway, NJ 08854, USA
Tel: +1-732-469-0880
Fax: +1-732-469-2298

Contact us: https://www.audiocodes.com/corporate/offices-worldwide
Website: https://www.audiocodes.com

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