

Mediant 500L Gateway and E-SBC



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Notes and Warnings



Adhere to all warning statements in this document



The device is an INDOOR unit and therefore, must be installed only indoors.

**Caution Electrical Shock**

Do not open or disassemble this device. The device carries high voltage and contact with internal components may expose you to electrical shock and bodily harm.



The device must be installed and serviced only by qualified service personnel.



For deployment in Finland, Sweden and Norway, the device must be installed only in restricted access locations that are compliant with ETS 300253 guidelines where equipotential bonding has been implemented.



Disconnect the device from the mains and Telephone Network Voltage (TNV) before servicing.



Open source software may have been added and/or amended for this product. For further information, please visit our website at <https://www.audiocodes.com/services-support/open-source/> or contact your AudioCodes sales representative.

Related Documentation

Document Name
Datasheet
SBC-Gateway Series Release Notes for Latest Release Versions
SBC-Gateway Series Release Notes for Long Term Support Versions
Mediant 500L Gateway & E-SBC User's Manual
Gateway and SBC CLI Reference Guide

Document Revision Record

LTRT	Description
10480	Initial document release for Version 7.0.
10481	Connector pinouts updated for serial interface.
10482	Max. power consumption updated.

LTRT	Description
10483	Status LED for software upgrade.
10484	19-inch rack mount; wall mounting.
10485	AC power cable warning (Japanese).
10486	Wall-mounting template.
10487	FXS and FXO interfaces added.
10488	LAN FE changed to GE.
10489	Typo re 19-inch rack mount shelf.
10490	Logo updated; PSTN Fallback/Analog lifeline updated.
10491	Serial cabling updated.
10492	Duration of press for default reset updated.
10493	Device replacement procedure.

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1 Introduction

This document provides a hardware description of the Mediant 500L Gateway and E-SBC (hereafter referred to as *device*) and step-by-step procedures for mounting and cabling the device.

The device supports the following interfaces:

- Four Gigabit Ethernet (1000Base-T) LAN ports (RJ-45).
- One USB port for optional USB storage services.
- Up to four ISDN BRI port interfaces, supporting up to eight voice channels as well as PSTN fallback.
- Up to four FXS port interfaces.
- Up to four FXO port interfaces.
- Serial console port (RJ-45) for device management.



- Hardware configurations may change without notice. Currently available hardware configurations are listed in AudioCodes Price Book. For further enquiries, please contact your AudioCodes sales representative.
- For information on configuring the device, refer to the device's *User's Manual*.

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:
 - Four anti-slide bumpers for desktop installation
 - AC/DC power adapter
5. Check, retain and process any documents.

If there are any damaged or missing items, notify your AudioCodes sales representative.

3 Physical Description

This section provides a physical description of the device.

Physical Dimensions and Operating Environment

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

Table 3-1: Physical Dimensions and Operating Environment

Specification	Value
Dimensions (H x W x D)	51 x 296 x 160 mm (2 x 11.65 x 6.3 in.)
Weight	670 g (1.5 lbs.)
Operating Environment	<ul style="list-style-type: none">■ Operational: 5 to 40°C (41 to 104°F)■ Storage: -25 to 85°C (-13 to 185°F)■ Relative Humidity: 10 to 90% non-condensing

Front Panel Description

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

Figure 3-1: Front Panel



The previous figure is used only as an example. The available LEDs depend on the ordered hardware configuration.

Table 3-2: Front Panel Description

Item #	LED Label	Description
1	Power	Indicates the status of the power supply to the device. For more information, see Power LED.
2	Status	Indicates the operating status of the device. For more information, see Status LED.

LED Descriptions

The LED descriptions are provided in the subsequent subsections.

Power LED

The Power LED indicates whether or not the device is powered on or off, as described in the following table.

Table 3-3: Power LED Description

Color	State	Description
Green	On	Power is received by the device.
-	Off	No power is received by the device.

Status LED

The Status LED indicates the operating status, as described in the following table.

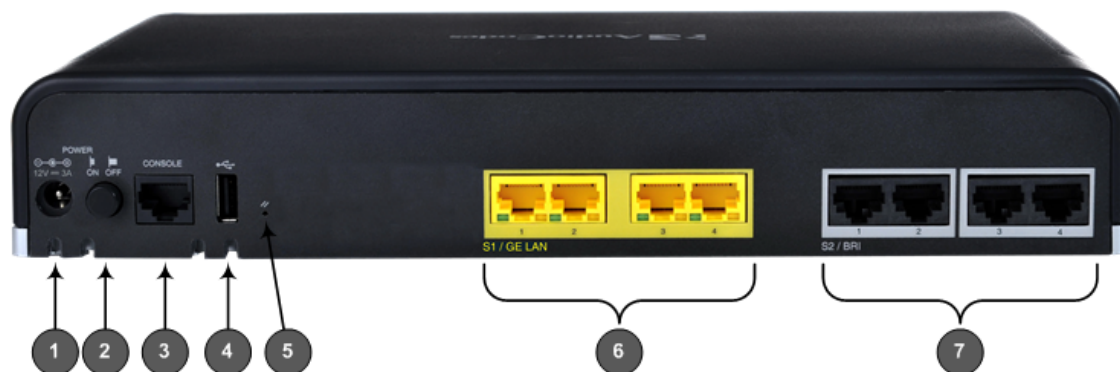
Table 3-4: Status LED Description

Color	State	Description
Green	On	Device is operational.
	Flashing	<ul style="list-style-type: none"> ■ Initial rebooting stage. ■ Software upgrade (.cmp file) in process (currently supported only by Software Version 6.8).
Red	On	Boot failure.
-	Off	Advanced rebooting stage.

Rear Panel Description


The device's rear panel is shown in the following figure and described in the subsequent table.

Figure 3-2: Rear Panel



The figure is used only as an example. The hardware configuration depends on the ordered model.

Table 3-5: Front Panel Description

Item #	Label	Description
1	POWER 12V -- 3A	AC power supply plug entry for connecting the device to the external AC power supply adapter.
2	ON / OFF	Power button which powers on the device when pressed in and powers off the device when pressed again (pressed out).
3	CONSOLE	RJ-45 port for RS-232 serial communication with the device.
4		USB 2.0 port, which can be used for external USB hard drive or flash disk (disk on key) for USB storage capabilities (for example, for configuration file)
5	//	Reset pinhole button for resetting the device or for restoring it to factory defaults. To restore the device to factory defaults, with a paper clip or any other similar pointed object, press and hold down the pinhole button for at least 15 seconds (but not more than 25 seconds).
6	S1 (Slot 1) GE LAN	Up to four Gigabit Ethernet (1000Base-T) ports (RJ-45) for connecting to LAN network such as IP phones, computers, and switches. These ports support half- and full-duplex modes, auto-negotiation, and straight or crossover cable detection. For a description of the LAN LEDs, see LAN

Item #	Label	Description
		Interface LEDs.
7	S1 / S2 (Slot 1 / Slot 2) FXS / FXO / BRI	Telephony interfaces, depending on ordered configuration: <ul style="list-style-type: none"> ■ Up to four ISDN BRI port interfaces (RJ-45) ■ Up to four FXS port interfaces (RJ-11) ■ Up to four FXO port interfaces (RJ-11)

LAN Interface LEDs

Each Ethernet port provides a LED for indicating LAN operating status, as described in the following table.

Table 3-6: LAN LED Description

Color	State	Description
Green	On	Ethernet link established.
	Flashing	Data is being received or transmitted.
-	Off	No Ethernet link.

4 Mounting the Device

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

- Desktop mounting
- 19-inch Rack mounting
- Wall mounting

19-Inch Rack Mounting

You can mount the device in a standard 19-inch rack, using AudioCodes 1U 19-inch rack mount shelf (not supplied).

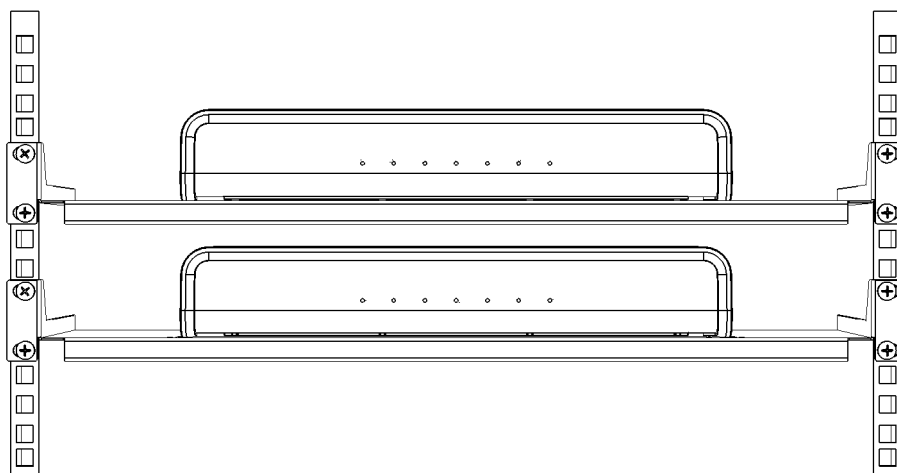


The 1U 19-inch rack mount shelf is not supplied with your product and can be ordered separately from an AudioCodes sales distributor.



- **Elevated Operating Ambient:** If installed in a closed or multi-unit rack assembly, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tmax) of 40°C (104°F).
- **Reduced Air Flow:** Installation should be such that the amount of air flow required for safe operation on the equipment is not compromised. Do not stack equipment one on top of the other and keep the ventilation openings free from cables or any objects to allow free air circulation. The device must be mounted correctly on the rack mount shelf to avoid air blockage to the three vents located on the bottom of the device. Mounting the device on a shelf other than AudioCodes rack mount shelf may cause the device to overheat, resulting in permanent damage to it.
- Only one device can be mounted per rack mount shelf.
- The minimum vertical rack space for mounting the device in a 19-inch rack must be 2Us (3.5 in. or 88.9 mm). See following figure.

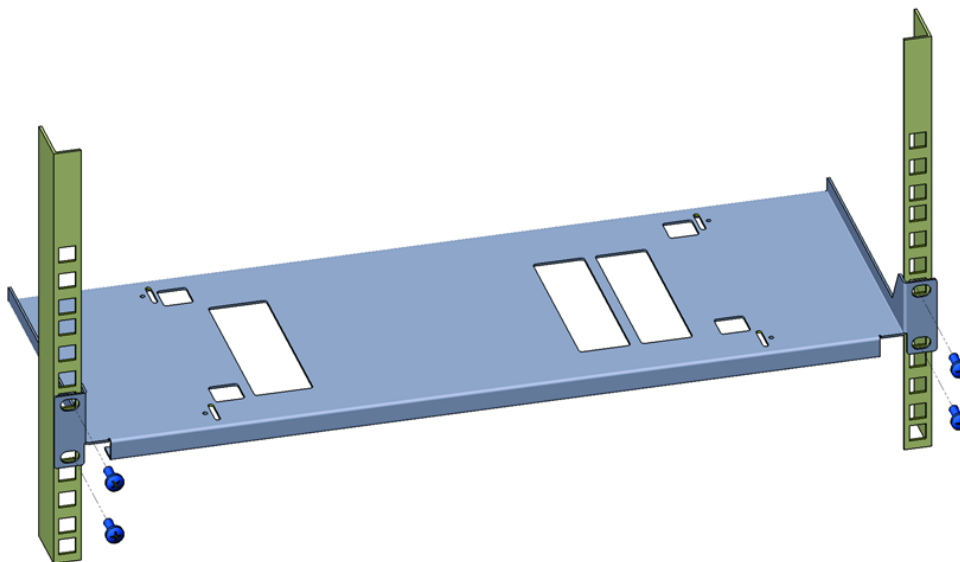
Figure 4-1: Minimum Vertical Space for 19-inch Rack Mounting



➤ **To mount the device in a 19-inch rack:**

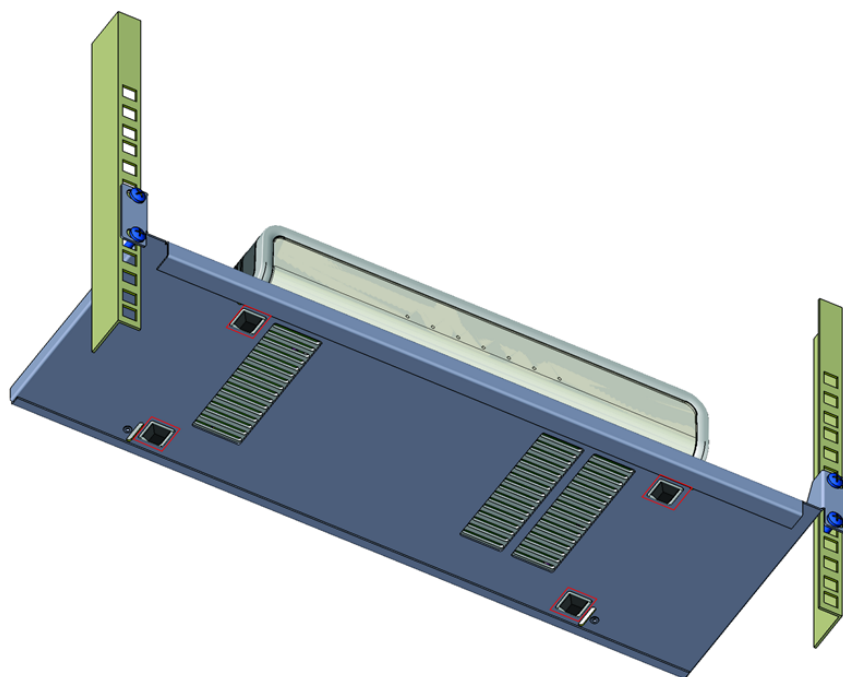
1. Position the rack mount shelf (not supplied) in the 19-inch rack, aligning the holes of the shelf's side brackets with the holes of the rack's front posts, as shown in the following figure.

Figure 4-2: Positioning Shelf in Rack

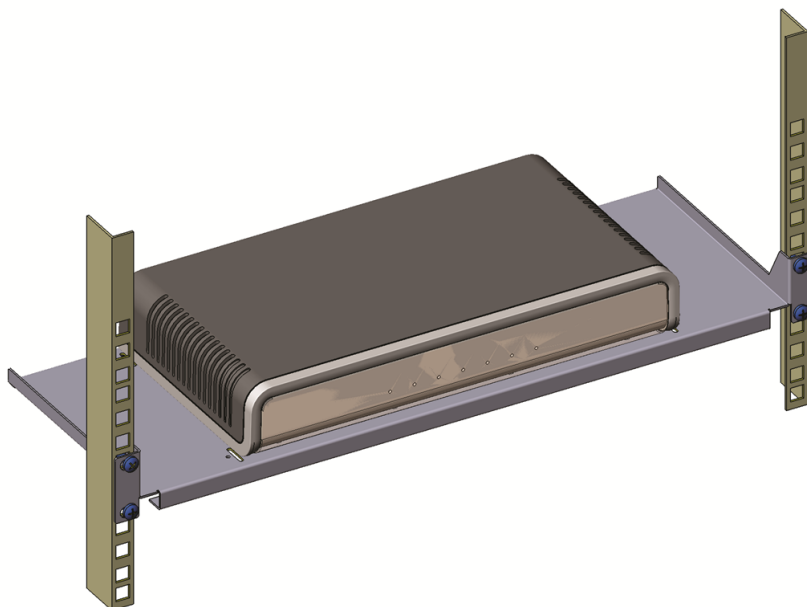


Make sure that you attach the shelf's side brackets (left and right) at the same height level in the rack so that the shelf is in a horizontal position.

2. Attach the shelf to the rack posts using four standard 19-inch rack bolts (not supplied).
3. Place the device on the shelf so that the device's front panel faces the front of the rack and the device's four anti-slide rubber legs (located on the bottom of the device) fit into the four square openings on the shelf, as shown in the following figure (viewed from underneath):

Figure 4-3: Positioning the Device's Anti-Slide Rubber Legs into Shelf's Openings

4. Make sure the device is firmly mounted on the shelf so it does not horizontally slide in any direction:

Figure 4-4: Device Mounted on Shelf in 19-inch Rack

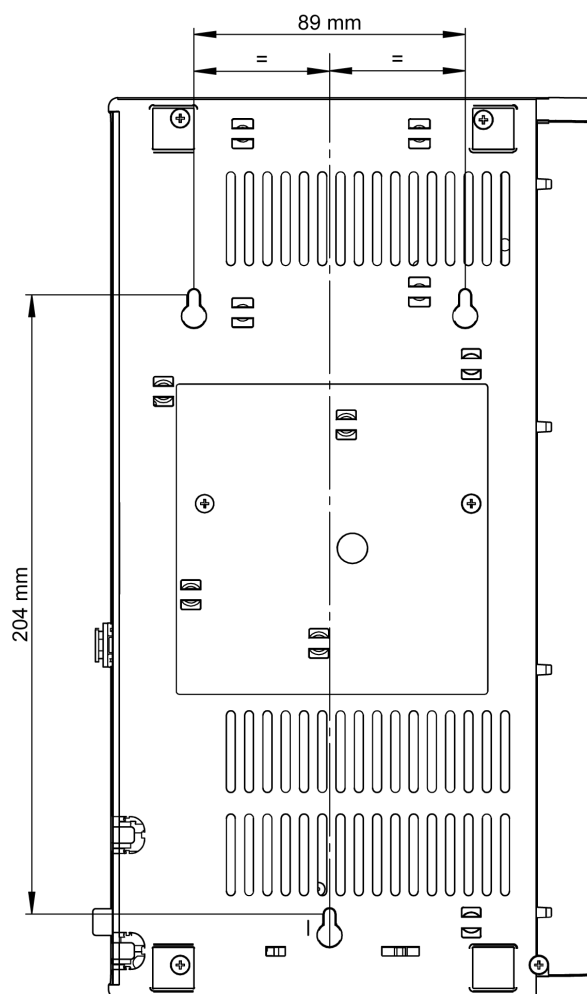
Wall Mounting

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

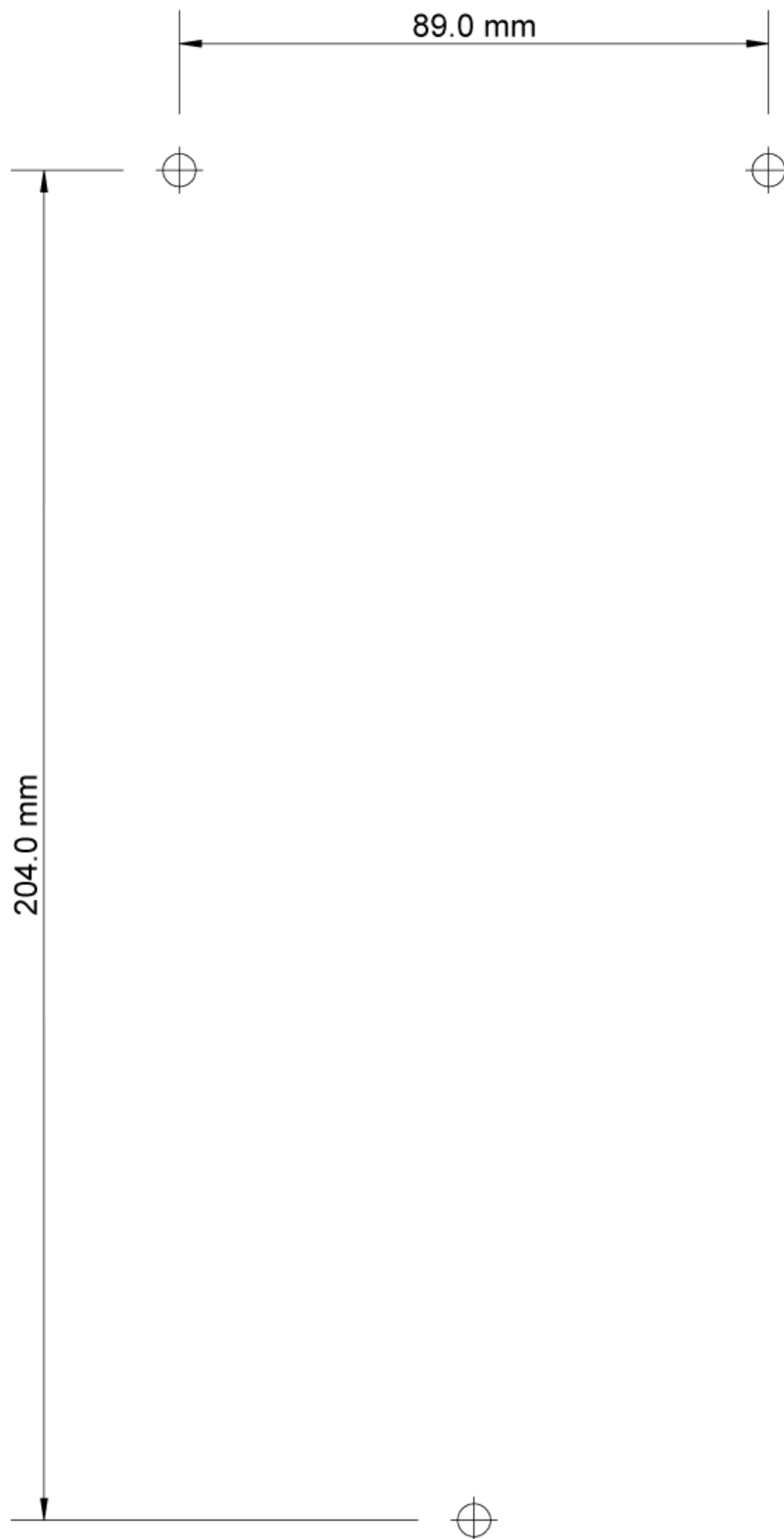
➤ **To mount the device on a wall:**

1. Drill three holes in the wall where you want to mount the device, using the distances between the holes as shown in the following figure:
 - Horizontal distance between the top two parallel holes: 89 mm (5.51 in.)
 - Vertical distance between the top two parallel holes and bottom hole: 204 mm (8.03 in.)
 - Horizontal distance between a top hole and the bottom hole: 44.5 (1.75 in.)

Figure 4-5: Dimensions for Drilled Holes



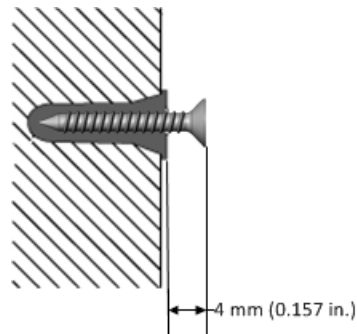
- When choosing the area on the wall to mount the device, make sure that sufficient space is available for attaching cables on the rear panel.
- Make sure that you drill the holes in the same orientation as shown in the previous figure (i.e., two parallel holes on the top and the single hole on the bottom).
- Use the mounting template on the following page (print out) to mark the locations for the mounting holes on the wall.



2. Insert wall anchors of the appropriate size into each hole.

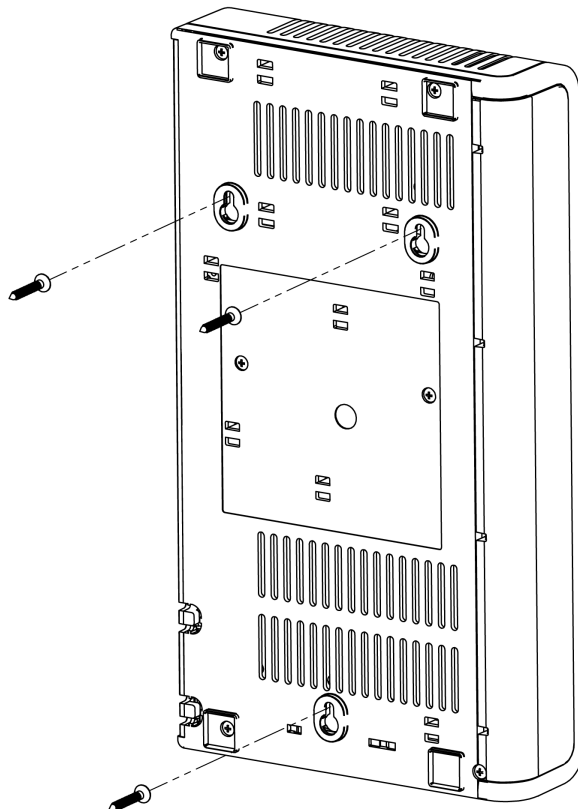
3. Thread screws (not supplied) into each of the wall anchors. The recommended screw type is DIN 7982 3.5x25 Phillips flat head. Make sure that the heads extend sufficiently (about 4 mm or 0.157 in.) from the wall for the device's keyholes to hang on:

Figure 4-6: Protruded Screw Distance from Wall Surface



4. Hold the device so that it is orientated with the bottom panel with the keyholes facing the wall and the rear panel with the ports facing your right.
5. Mount the device on the wall by hanging the device's keyholes on the screw heads:

Figure 4-7: Hanging Device on Screw Heads



5 Cabling the Device

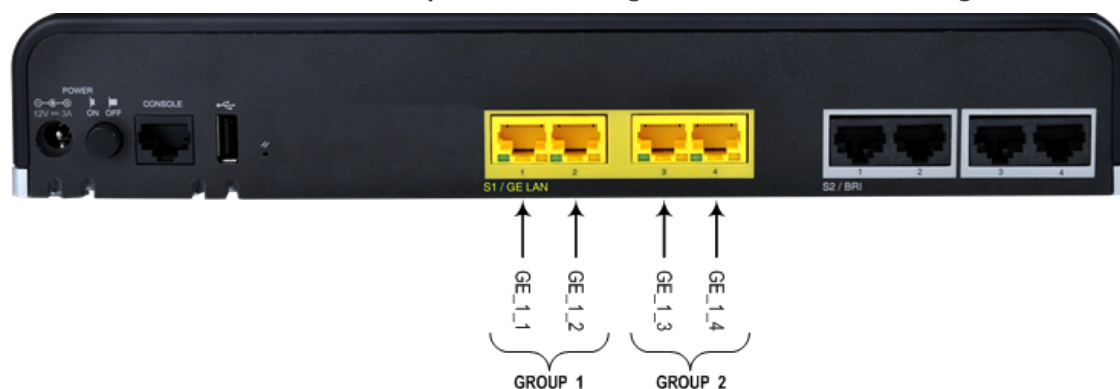
This chapter describes the cabling of the device.

Connecting LAN Interfaces

The device's Gigabit Ethernet LAN ports (1000Base-T) can be connected to network equipment and entities such as computers, switches, and IP phones. These ports support half- and full-duplex modes, auto-negotiation, and straight or crossover cable detection.

The Ethernet ports can operate in pairs (Ethernet Groups) to provide 1+1 port redundancy, where one port serves as the active port while the other as standby. When the active port fails, the device switches to the standby port. By default, the Ethernet ports are grouped into pairs, as shown in the following figure with the port string names used for software configuration. You can change this port assignment, including assigning only a single port to an Ethernet Group. For more information, refer to the User's Manual.

Figure 5-1: Default Ethernet Port Groups and Port String Names for Software Configuration



The Ethernet cabling specifications include the following:

- Cable: Straight-through, Category (Cat) 5e cable
- Connector: Standard RJ-45
- Connector Pinouts:

Table 5-1: RJ-45 Connector Pinouts for GE

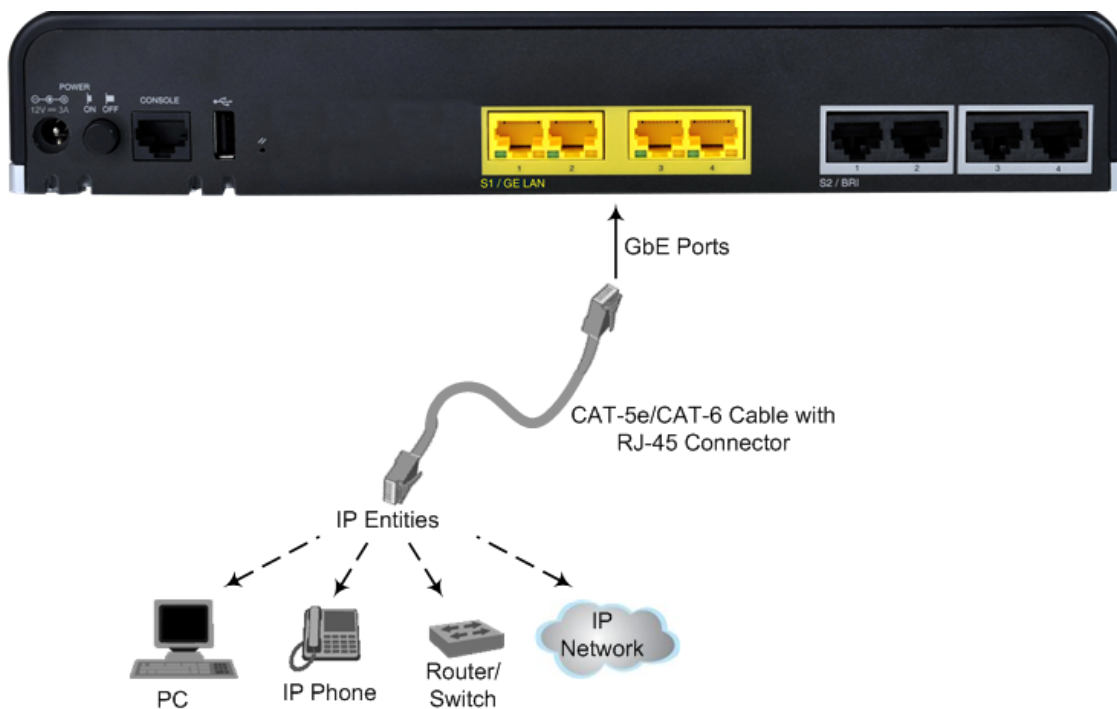
Pin	Signal Name
1	Ethernet signal pair (1000Base-T)
2	
3	Ethernet signal pair (1000Base-T)
6	

Pin	Signal Name
4	Ethernet signal pair (1000Base-T)
5	
7	Ethernet signal pair (1000Base-T)
8	
Shield	Chassis ground

➤ **To connect the device to the LAN:**

1. Connect one end of a straight-through RJ-45 Cat 5e or Cat 6 cable to the LAN port, located on the rear panel and labeled GE LAN.

Figure 5-2: Cabling LAN Ports



2. Connect the other end of the cable to a network device or entity.
3. For 1+1 LAN protection, repeat steps 1 and 2 for the standby port, but connect it to another network (but in the same subnet).



Ethernet port interface cabling must be routed only indoors and must not exit the building.

ISDN BRI Interfaces

This section describes how to connect the device to ISDN BRI lines.

Connecting BRI Lines

The BRI ports can be connected to ISDN terminal equipment such as ISDN telephones or PBXs. Each BRI port can be configured either as termination equipment/user side (TE) or network termination / network side (NT). Up to eight terminal equipment (TE) devices can be connected per BRI S/T port, using an ISDN S-bus providing eight ISDN ports. When configured as NT, the BRI port drives a nominal voltage of 38V with limited current supply of up to 100 mA.



To protect against electrical shock and fire, use a 26 AWG min wire to connect the BRI ports to the PSTN.

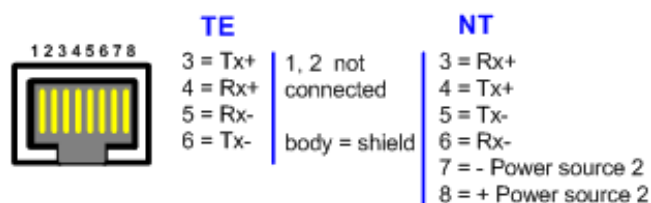


BRI interface is a separate orderable item which is supported only on specific hardware configurations. For more information, contact your AudioCodes sales representative.

The BRI cabling specifications include the following:

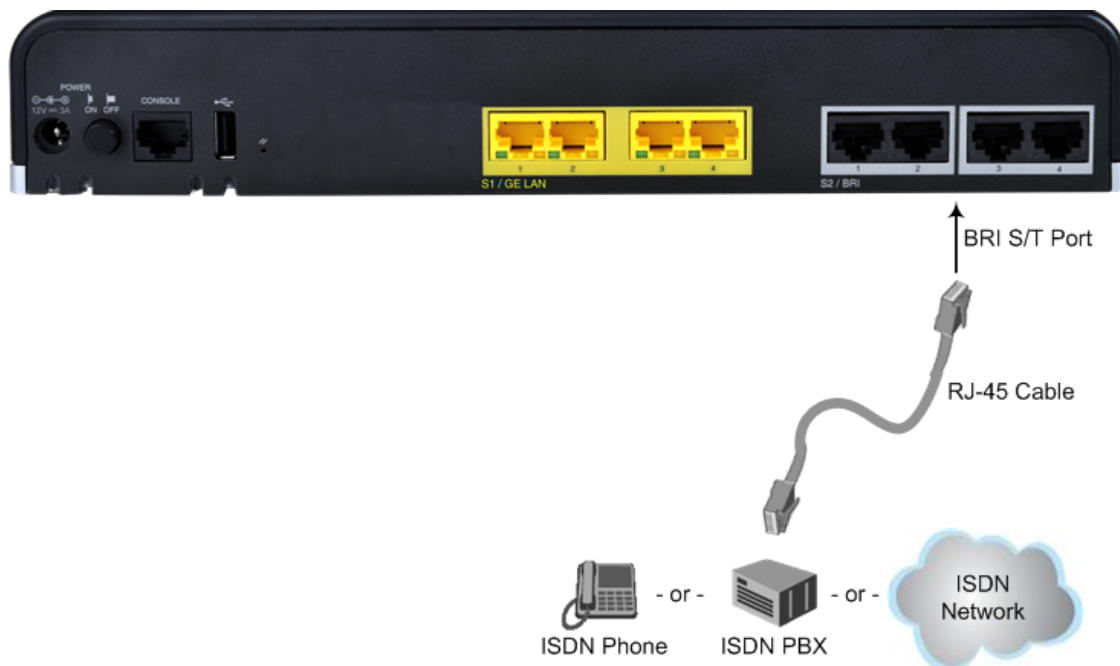
- Cable: Straight-through, Category (Cat) 5, 5e or 6
- Connector: Standard RJ-45
- Connector Pinouts:

Figure 5-3: RJ-45 Connector Pinouts for TE or NT BRI Ports



➤ To connect a BRI line:

1. Connect the RJ-45 cable to the device's BRI port, located on the rear panel and labeled BRI.

Figure 5-4: Cabling BRI Ports

2. Connect the other end of the cable to your ISDN equipment.

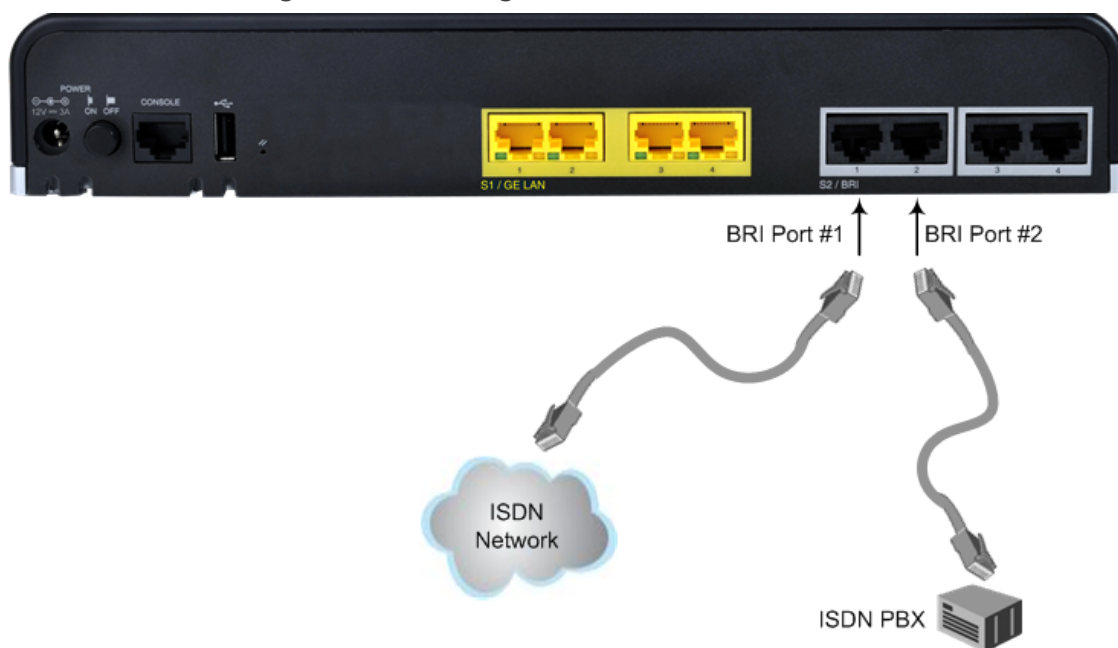
Connecting PSTN Fallback for BRI Lines

The device supports PSTN Fallback for BRI lines. If the device loses power, for example, due to a power outage or the unplugging of its power cable, it automatically routes calls from the Tel side to the PSTN (instead of the IP network). This guarantees call continuity.

The BRI PSTN Fallback uses BRI ports #1 and #2. When the BRI PSTN Fallback is activated, the internal metallic relay switch of BRI port #1 automatically connects BRI ports #1 and #2, and calls can be routed and established between these entities.

➤ To cable the BRI PSTN Fallback:

1. Connect BRI line 1 (Port #1), located on the rear panel, to an ISDN PBX.
2. Connect BRI line 2 (Port #2)), located on the rear panel, to the ISDN network (PSTN).

Figure 5-5: Cabling BRI PSTN Fallback

- For the four-BRI port configuration, fallback is not supported on ports #3 and #4.
- The BRI PSTN Fallback feature is a separate orderable item, which is supported only on specific hardware configurations providing BRI interfaces. For more information, contact your AudioCodes sales representative.
- The BRI PSTN Fallback feature has no relation to the PSTN Fallback Software License Key.

Analog Interfaces

This section describes how to connect the device to analog equipment.

Connecting FXS Interfaces

The procedure below describes how to cable the device's FXS interfaces.



- The device is an INDOOR unit and therefore, must be installed only indoors.
- FXS port interface cabling must be routed only indoors and must not exit the building.
- Make sure that the FXS ports are connected to the appropriate, external devices; otherwise, damage to the device may occur.
- FXS ports are considered TNV-2.

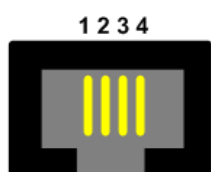


- FXS interface is a separate orderable item.
- FXS is the interface replacing the Exchange (i.e., the CO or the PBX) and connects to analog telephones, dial-up modems, and fax machines. The FXS is designed to supply line voltage and ringing current to these telephone devices. An FXS VoIP device interfaces between the analog telephone devices and the Internet.

Cable specifications:

- Cable: Standard straight-through RJ-11-to-RJ-11 telephone cable
- Connector Type: RJ-11
- Connector Pinouts:

Figure 5-6: RJ-11 Connector Pinouts for FXS Interface

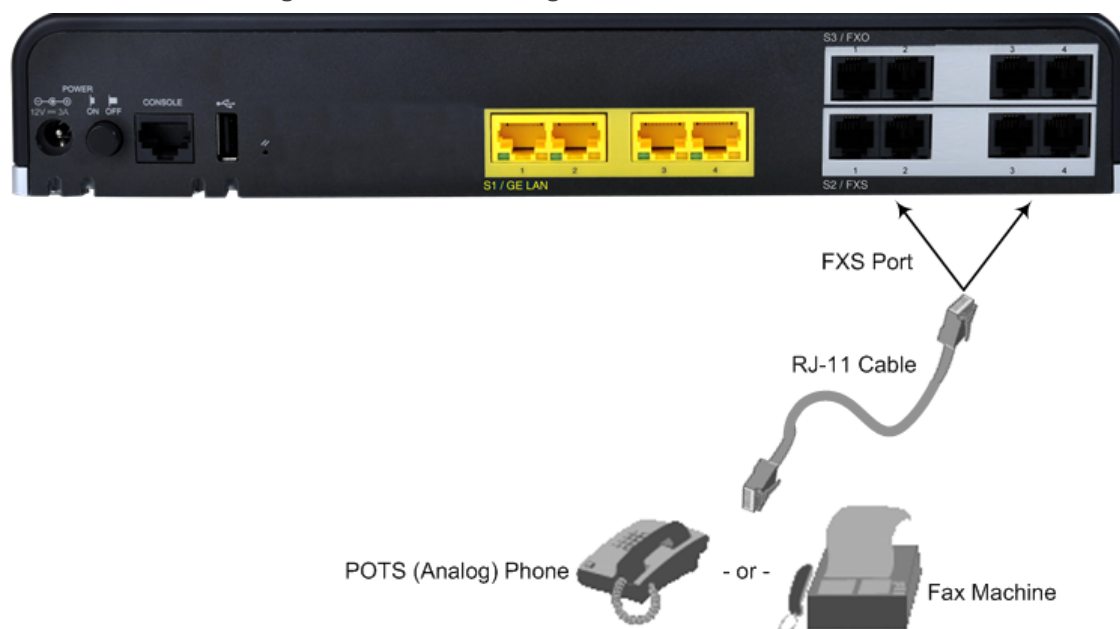


- 1 - Not connected
- 2 - Tip
- 3 - Ring
- 4 - Not connected

➤ **To connect the FXS interfaces:**

1. Connect one end of an RJ-11 cable to the device's FXS port (labeled **FXS**), located on the rear panel:

Figure 5-7: Connecting 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).

Connecting FXO Interfaces

The procedure below describes how to cable the device's FXO interfaces.



- The device does not include primary telecom protection! When the FXO telephone lines are routed outside the building, additional protection - usually a 350V three-electrode Gas Discharge Tube (GDT) as described in ITU-T K.44 - must be provided at the entry point of the telecom wires into the building (usually on the main distribution frame / MDF), in conjunction with proper grounding. The center pin of the GDT (MDF grounding bar) must be connected to the equipotential grounding bus bar of the Telecommunication room.
- To protect against electrical shock and fire, use a minimum 26-AWG wire to connect FXO ports to the PSTN.
- Ensure that the FXO ports are connected to the appropriate, external devices; otherwise, damage to the device may occur.
- FXO ports are considered TNV-3.

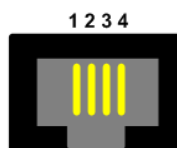


- FXO interface is a separate orderable item.
- FXO is the interface replacing the analog telephone and connects to a Public Switched Telephone Network (PSTN) line from the Central Office (CO) or to a Private Branch Exchange (PBX). The FXO is designed to receive line voltage and ringing current, supplied from the CO or the PBX (similar to an analog telephone). An FXO VoIP device interfaces between the CO/PBX line and the Internet.

Cable specifications:

- Cable: 26 AWG min
- Connector Type: RJ-11
- Connector Pinouts:

Figure 5-8: RJ-11 Connector Pinouts for FXO Interface



- 1 - Not connected
- 2 - Tip
- 3 - Ring
- 4 - Not connected

➤ To connect the FXO interfaces:

1. Connect one end of an RJ-11 cable to the device's FXO port (labeled **FXO**), located on the rear panel:

Figure 5-9: Connecting FXO Interfaces

2. Connect the other end of the cable to the required telephone interface: (e.g., telephone exchange analog lines or PBX extensions).

Connecting the FXS Analog Lifeline

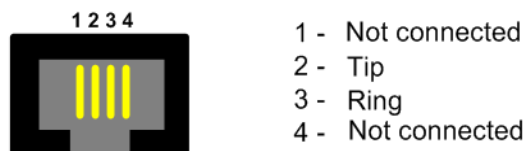
The device supports Analog Lifeline. If the device loses power, for example, due to a power outage or the unplugging of its power cable, it automatically routes calls from a POTS telephone ("lifeline" phone), connected to an FXS port, to the PSTN (instead of the IP network).

The FXS Lifeline extension or phone connects to FXS Port #1 while the PSTN/PBX connects to FXO Port #1. When the Lifeline is triggered, the FXS line automatically connects to the FXO line and calls between these entities can occur.

Note: The FXS Analog Lifeline feature is a separate orderable item and is only supported on specific hardware configurations with combined FXS and FXO interfaces. For more information, contact your AudioCodes sales representative.

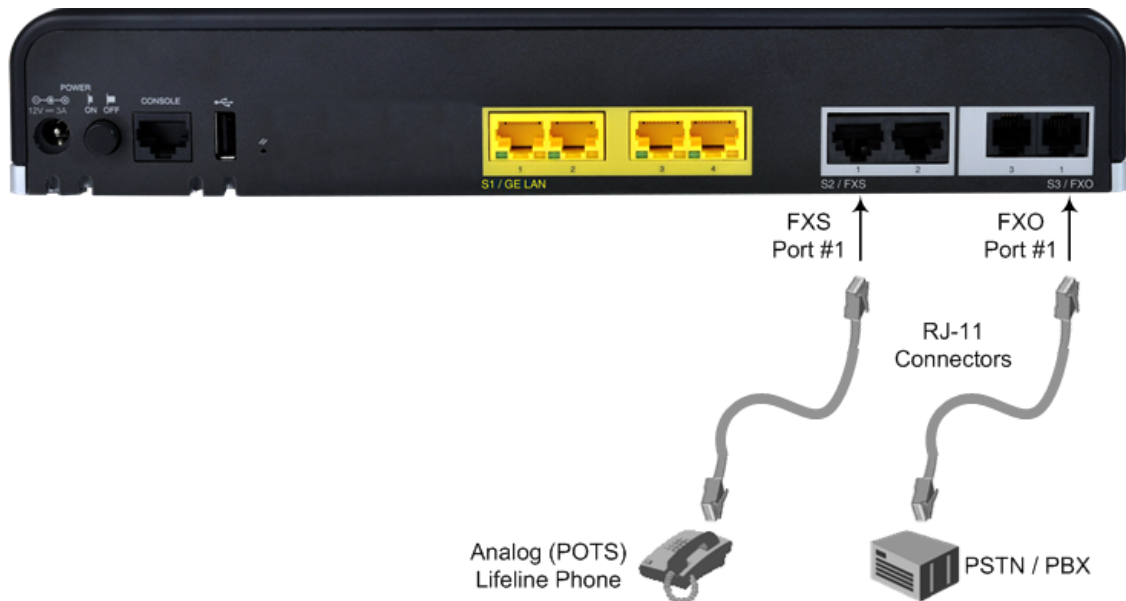
Cable specifications:

- Connector Types: RJ-11
- Connector Pinouts:

Figure 5-10: RJ-11 Connector Pinouts for FXS Lifeline

➤ To cable the FXS Analog Lifeline:

1. Connect the analog lifeline telephone to FXS Port #1 (labeled **FXS**), located on the rear panel.
2. Connect an analog PSTN line to FXO Port #1 (labeled **FXO**), located on the rear panel.

Figure 5-11: Cabling the FXS Analog Lifeline

Cabling the Serial Interface to a PC

The device provides an RS-232 serial interface port on its rear panel. The RS-232 interface port is used to access the device's command line interface (CLI).

Cabling specifications:

- Cable: Straight-through, Category (Cat) 5, 5e or 6
- Connector: Standard RJ-45
- Connector Pinouts:

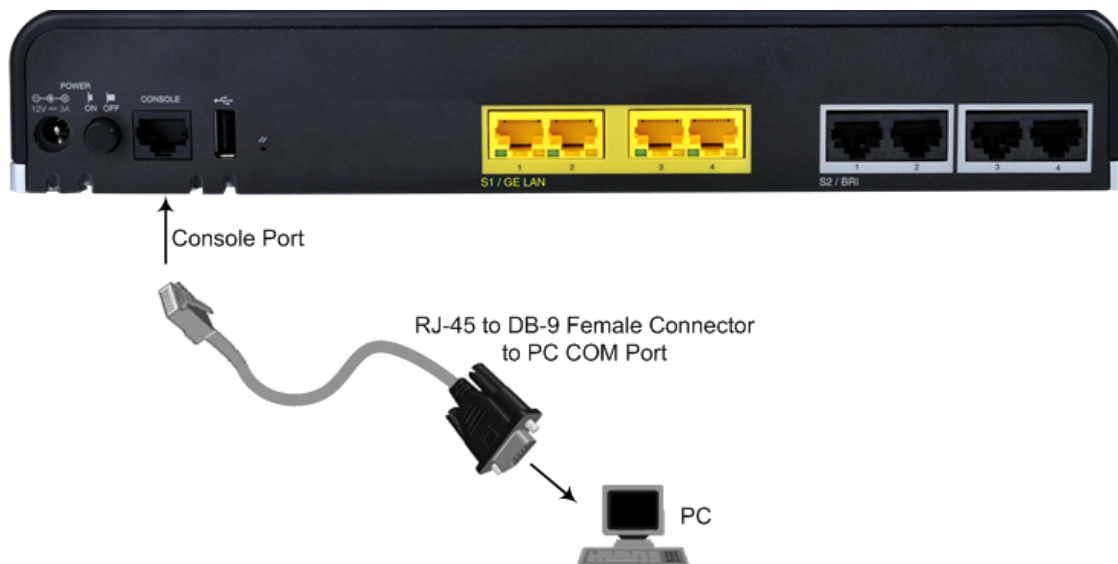
Table 5-2: RJ-45 Connector Pinouts

Pin	Signal
1	Not used
2	Ground (GND)
3	Transmit Data (TXD)
4	Not used
5	Not used
6	Receive Data (RXD)
7	Ground (GND)
8	Not used

➤ **To connect the device's serial interface port to a PC:**

1. Connect the RJ-45 connector at the end of the cable to the device's serial port, located on the rear panel and labeled CONSOLE.

Figure 5-12: Cabling Serial Port



2. Connect the other end of the cable (e.g., 9-pin DB connector) to the COM RS-232 communication port on your computer.

Connecting a USB Storage Device

The device supports USB storage capabilities, using an external USB hard drive or flash disk (disk on key) connected to the device's USB port. The storage capabilities are configured through CLI and include the following:

- Saving network captures to USB
- Upgrading the device's firmware from USB
- Updating the device's configuration from USB
- Saving the current configuration to USB

➤ **To connect the USB storage device:**

- Connect the USB storage device to the USB port, located on the rear panel.

Figure 5-13: Connecting USB Storage Device



Only a single USB storage (formatted to FAT/FAT32) operation is supported at any given time.

Connecting to the Power Supply

The device is powered by an external 12V AC/DC power adapter (supplied), connected to a standard alternating current (AC) electrical wall outlet.

Table 5-3: Power Specifications

Item	Description
Power Supply	Single universal external AC power supply
Input Ratings	100-240 VAC, 50-60 Hz
Output Ratings	12V/3A
Max. Power Consumption	<ul style="list-style-type: none"> ■ Only SBC (no BRI): 7W ■ BRI: <ul style="list-style-type: none"> ✓ 2.5W per NT port ✓ 0.4W per TE port



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

ご注意

本製品に添付の電源ケーブルは、Mediant 500L Gateway and E-SBC に専用設計されているため、汎用性はありません。本電源ケーブルを他の機器に使用されないよう、ご注意ください。

The device is shipped with the AC/DC power adapter shown in the following figure. The power adapter also supports interchangeable plugs to suite the electrical wall outlet type requirement of the country in which the device is being installed.

Figure 5-14: AC/DC Power Adapter

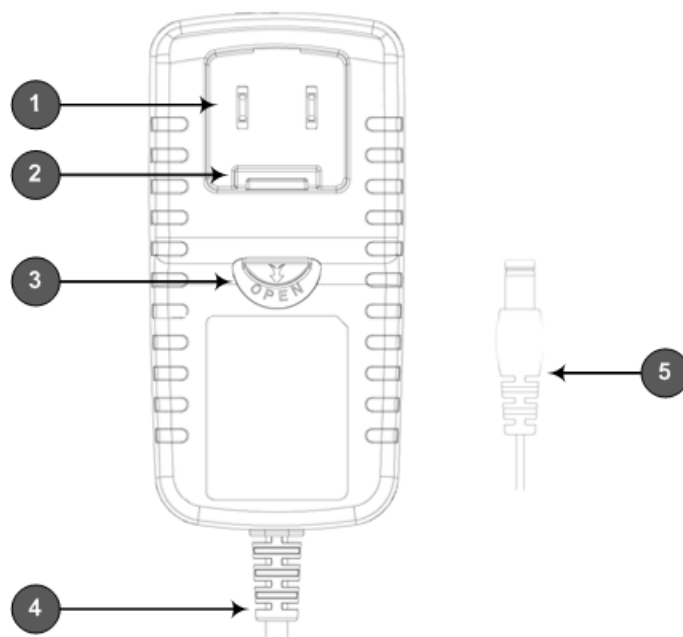
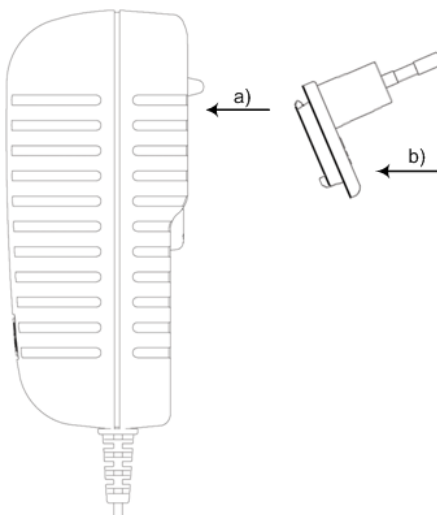


Table 5-4: Power Adapter with Interchangeable Plugs

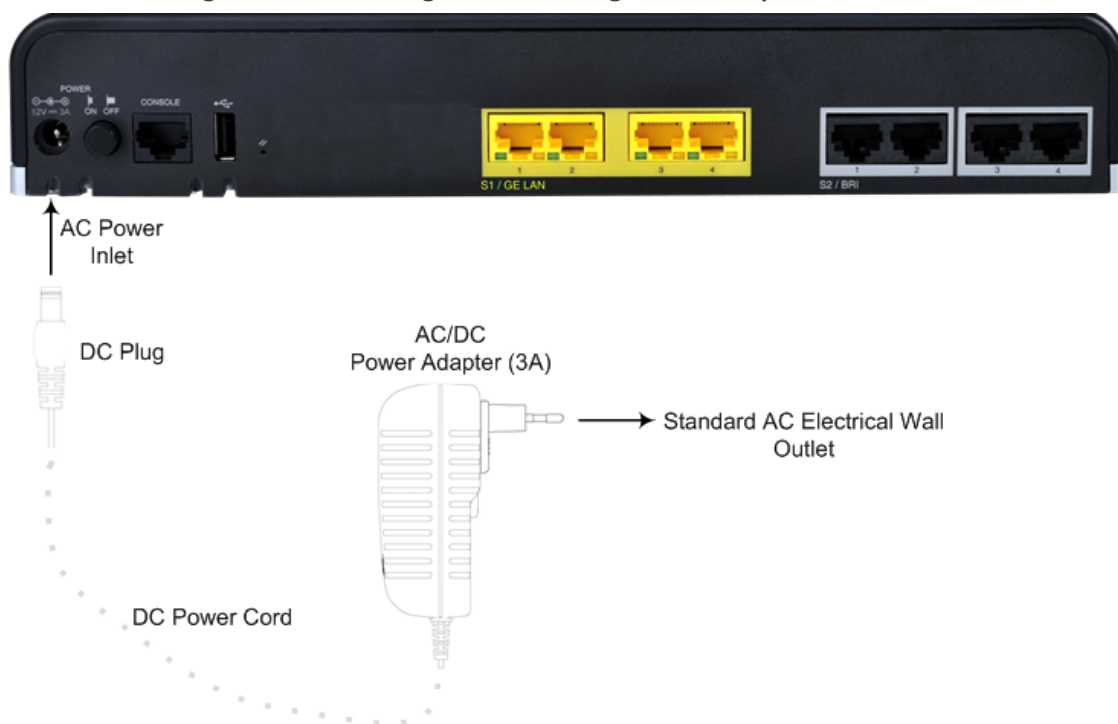
Item	Description
1	Plug slot
2	Plug lock
3	Plug release lever
4	DC power cord
5	DC power plug

➤ **To connect the device to the power supply using the power adapter:**

1. Insert the relevant AC plug into the housing power adapter:
 - a. Insert the top part of the plug into the upper part of the housing slot (1).
 - b. Press down on the bottom part of the plug until a "click" sound is heard, indicating that the plug is securely inserted in the housing slot. To remove the plug, push and slide down the OPEN plug release lever (3).

Figure 5-15: Inserting Plug into Power Adapter

2. Insert the DC plug (5) located at the end of the power cord (4) of the power adapter into the device's power socket located on the rear panel.

Figure 5-16: Cabling to Power using Power Adapter

3. Plug the power adapter directly into a standard electrical wall outlet.

Powering On or Off the Device

The device is equipped with a power switch, which is located on its rear panel (see Rear Panel Description) for turning it on or off.

➤ **To power on the device:**

- Press in the power button; the device receives power, indicated by the lighting of the Power LED, located on the front panel.

➤ **To power off the device:**

- Press out the power button; the device powers off, indicated by the Power LED going off.

6 Hardware Maintenance

This section describes hardware maintenance procedures.

Replacing a Faulty Device

If you need to replace a faulty device, for whatever reason, with a new device having the same hardware configuration, follow the below procedure:

➤ **To replace a faulty device:**

1. Make sure that you have a new License Key for the device. If not, ask your AudioCodes sales representative for the License Key.
2. Disconnect the faulty device from your power supply, and then unplug all cables connected to it.
3. Plug all the relevant cables into the new device, and then power it up.
4. From your local computer, access the device's Web interface with the device's default IP address (192.168.0.2/24), through FE LAN Port 1.
5. Load the software file (.cmp) to the device. If you don't have the file, ask your AudioCodes sales representative for it.
6. Load the License Key file to the device.
7. Load your backup (saved) Configuration Package file or individual files (e.g., ini file, certificate files, Dial Plan file, and CPT file), if you have, to the device.
8. Disconnect your computer from the device, and then connect the device's Ethernet port to your network.
9. Verify that the device is operating correctly (e.g., alarms are cleared and call traffic is being routed) and that it is successfully communicating with third-party equipment (e.g., monitoring system, billing system, or routing system), if relevant.
10. If the device is monitored by OVOC, access the OVOC web-based management interface, remove the device from the OVOC topology, and then re-add it.

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