

Mediant™ 3100 SBC and Gateway

Quick Setup Guide

Welcome

Congratulations on purchasing your AudioCodes **Mediant 3100 Session Border Controller (SBC) and Gateway**, hereafter referred to as *device*!

This document is only intended to provide basic setup instructions for initial access to the device and connecting it to your network. For advanced configuration and cabling, refer to the device's *User's Manual* and *Hardware Manual* respectively, which can be downloaded from AudioCodes website at <https://www.audiocodes.com/library/technical-documents>.

Before you begin, please read the [Safety Precautions](#) on page 9.

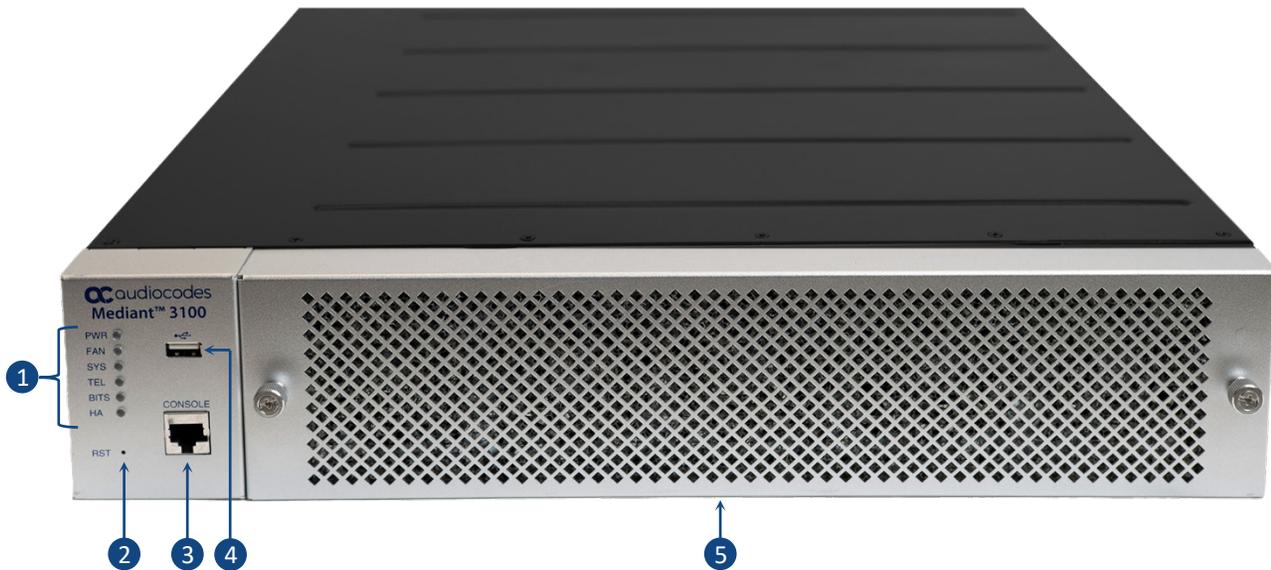
Package Contents

Make sure that the following items (in addition to any separate-orderable items that you may have purchased) are included with your shipped device:

- 2 x front-mounting brackets with six screws for 19-inch rack mounting
- 1 x grounding lug
- 1 x serial cable adapter
- 2 x AC power cables
- Regulatory Information document



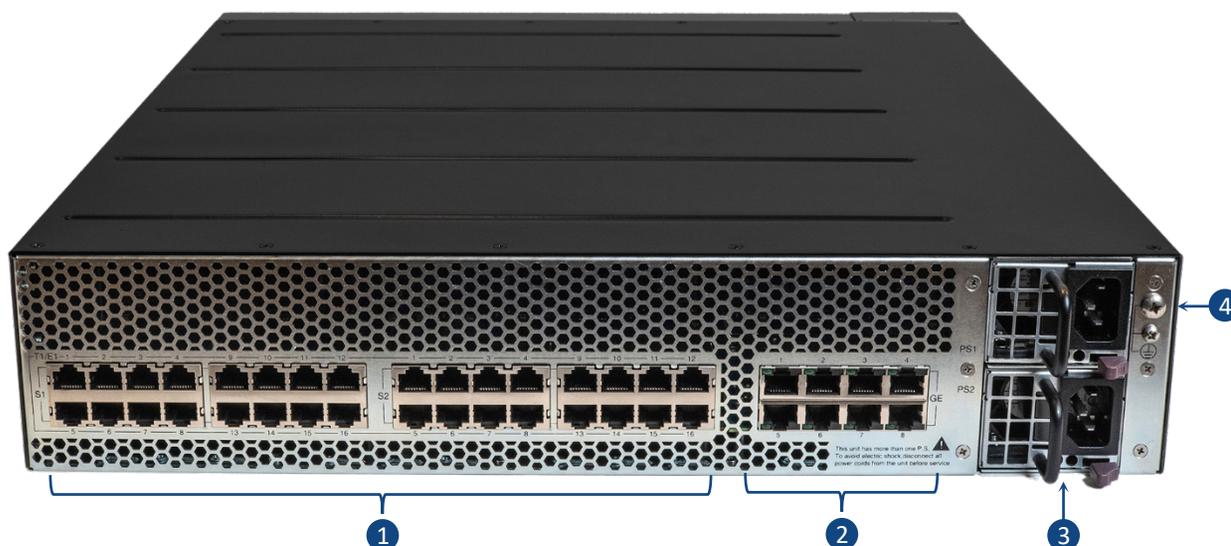
Physical Description of Front Panel



- 1 PWR** LED indicating power status:
- Green On The chassis is receiving power and the Power Supply modules are operating normally.
 - Red On One of the Power Supply modules is faulty.
 - Off The chassis is not receiving any power.
- FAN** LED indicating fan status:
- Green On The Fan Tray module is operating normally.
 - Red On One or more fans of the Fan Tray module are faulty.
 - Off The Fan Tray module is not receiving power.
- SYS** LED indicating system status:
- Green On The device is operating normally.
 - Orange On The chassis is approaching the high-temperature threshold (but not critical).
 - Red On
 - Fatal error has occurred.
 - or -
 - The chassis is approaching the critical high-temperature threshold.
 - Off The device is booting up.
- TEL** LED indicating status of E1/T1 PSTN interfaces:
- Green On Normal operation.
 - Orange On Temporary out-of-service of one or more E1/T1 interfaces. (A device reset may resolve the issue.)
 - Red On Out-of-service of one or more E1/T1 interfaces.
 - Off No power.
- BITS** This LED is not used and reserved for future use.

- HA** LED indicating High-Availability (HA) status:
Note: HA will only be supported from a specific 7.4 software version.
- Green On The device is running in HA mode and is the Active unit.
 - Green Flashing The device is running in HA mode and is the Redundant unit.
 - Orange On The device is running in Standalone mode (i.e., HA not configured).
 - Red On The device is the Active unit, but an HA synchronization failure exists (e.g., HA Maintenance link failure).
 - Red Flashing The device is the Redundant unit, but a failure exists in HA.
 - Off The device is booting up, before HA synchronization.
- 2 RST** Reset pinhole button for resetting the device and restoring it to factory defaults:
- **To reset the device:** Using a paper clip or any other similar pointed object, press and hold down the button for at least 2 seconds (but no more than 10 seconds).
 - **To restore the device to factory defaults:** Using a paper clip or any other similar pointed object, press down the button for at least 15 seconds (but not longer than 25 seconds).
- 3 CONSOLE** RS-232 serial port (RJ-45) for connecting to the device's Command-Line Interface (CLI).
- 4**  USB 2.0 Type-A port, which can be used for storage capabilities using an external USB hard drive or flash disk (disk on key).
- 5** - Fan Tray module cover.

Physical Description of Rear Panel

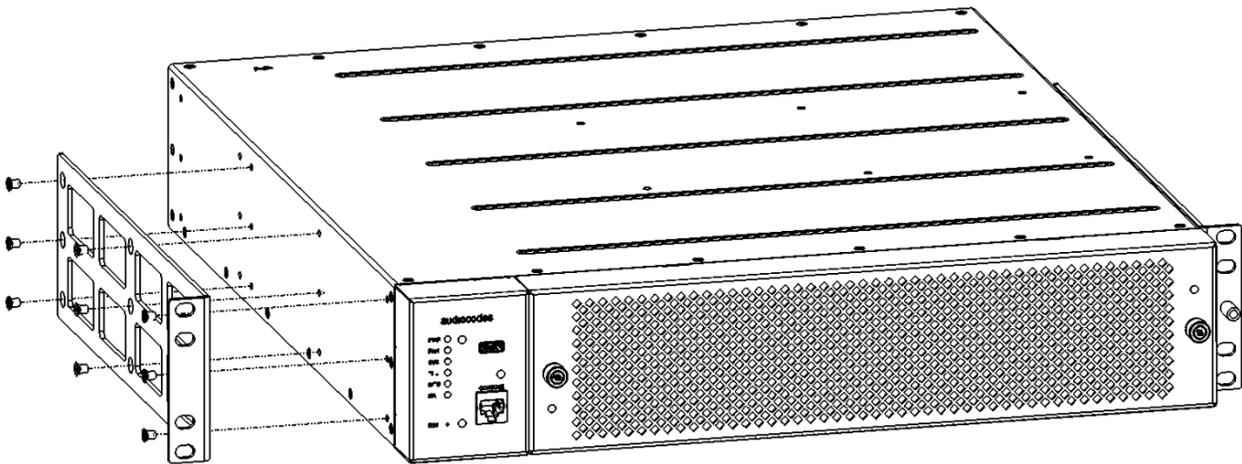


- 1 S1 1-16** RJ-48C ports for connecting T1/E1 PSTN trunk interfaces.
S2 17-32
- 2 GE 1-8** 8 x 100/1000Base-T (Gigabit) Ethernet ports (RJ-45) for connecting to the IP network. Each port provides LEDs to indicate Ethernet status:
 - Green On Ethernet link established.
 - Green Flashing Data is being received or transmitted.
 - Off No Ethernet link.
- 3 PS1 / PS2** 2 x Power Supply modules. Each module provides a LED to indicate power supply status:
 - Green On DC power output is good.
 - Orange Flashing Power Supply module is not operating properly.
 - Off Internal power supply malfunction or the power source is disconnected.

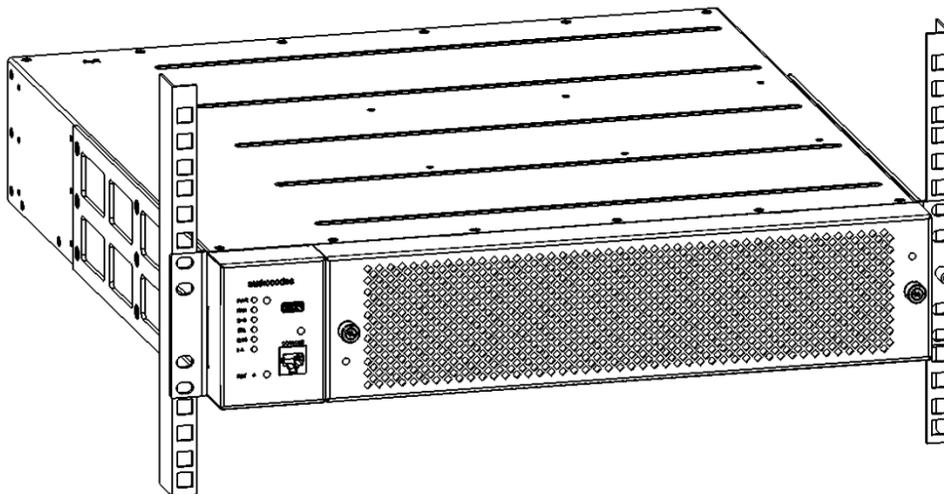
Mounting the Device

The device is designed to be mounted in a standard 19-inch rack. This is done by placing it on a shelf (not supplied) in a 19-inch rack and then securing it to the rack's posts, using front-mounting brackets (supplied).

1. Install a shelf in the 19-inch rack on which you will place the device.
2. Attach the two front-mounting brackets (supplied) to both sides of the chassis. Each bracket is secured to the chassis using 9 screws (supplied).



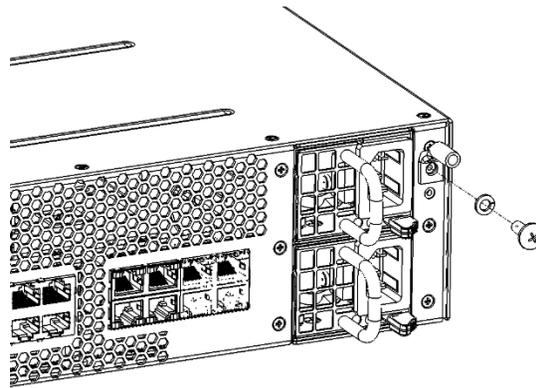
3. Place the chassis onto the rack shelf.
4. Align the holes of the chassis' mounting brackets with the holes of the rack posts, as shown in the following figure. Secure the mounting brackets to the rack posts, using 19-inch rack bolts (not supplied). Each mounting bracket is secured to the rack using two bolts.



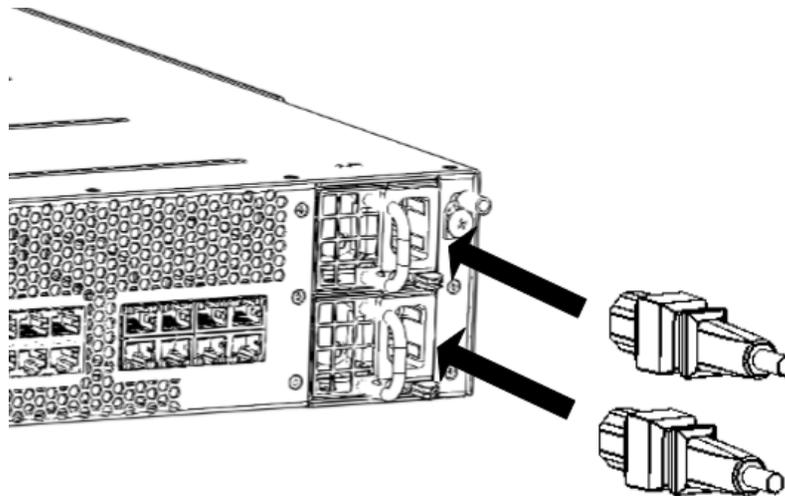
Powering the Device

The device can be powered from a standard alternating current (AC) electrical wall outlet or a DC power source.

1. **GROUNDING:** Ground (earth) the device by crimping an electrically earthed strap of 8-AWG (minimum) wire into the grounding lug (supplied), and then attaching the grounding lug to the chassis, as shown in the following figure, making sure that the spring washer is located between the screw head and the lug. Connect the other end of the grounding wire to the building's protective earth (in accordance with regulations enforced in the country of installation).



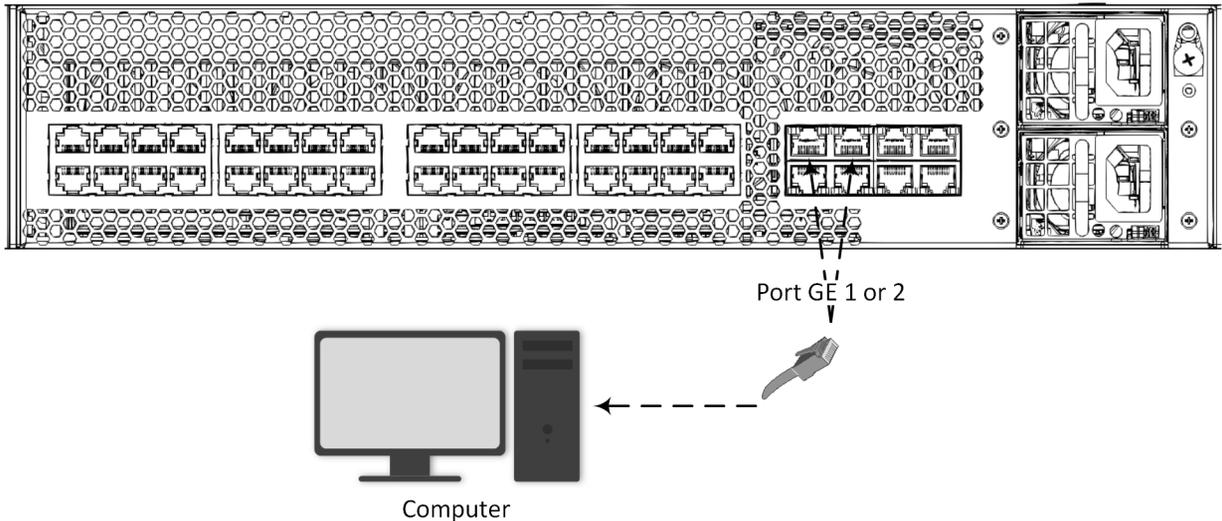
2. **AC POWER:** For each Power Supply module, connect the line socket of the AC power cord (supplied) to the device's AC power inlet, located on the rear panel. Connect the plug at the other end of the AC power cord to a standard electrical wall outlet.



Assigning an IP Address

Use the device's factory default IP address (**192.168.0.2/24** and Default Gateway 0.0.0.0) to initially access the device's Web-based management interface and then change it to suit your network's addressing scheme for subsequent connectivity.

1. Using a CAT-5e/6 shielded twisted pair (STP) straight-through RJ-45 Ethernet cable, connect Ethernet port **GE 1** or **GE 2** (located on the rear panel) to the LAN port of your computer:

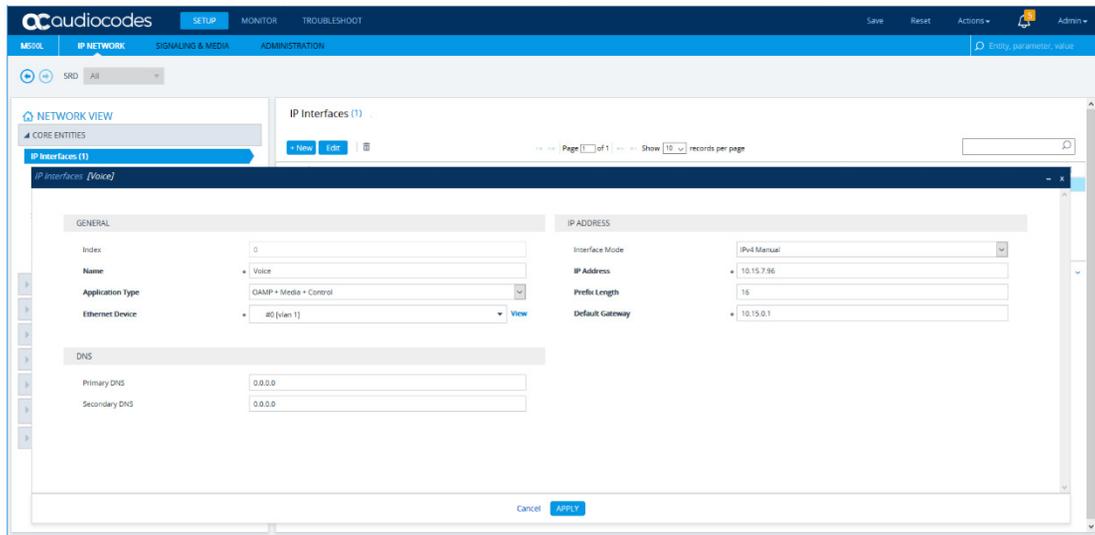


2. Change the IP settings of your computer to correspond with the device's default IP address and subnet mask.
3. On your computer, open a standard Web browser (for example, Google Chrome), and then in the URL field, enter the device's default IP address; the Web Login screen appears:

The screenshot shows a web browser displaying a login page titled 'Web Login'. The page has a clean, minimalist design. At the top, the title 'Web Login' is centered. Below it, there are two input fields: 'Username' and 'Password'. The 'Username' field contains the text 'Admin'. Below the 'Username' field is a 'Remember Username' checkbox, which is checked. To the right of the checkbox is a blue 'Log In' button. The overall layout is simple and functional.

4. Type in the default username (**Admin**) and password (**Admin**), and then click **Log In**.
5. Open the IP Interfaces table (**Setup** menu > **IP Network** tab > **Core Entities** folder > **IP Interfaces**).

6. Select the OAMP interface ('Application Type' with **OAMP + Media + Control**), click **Edit**, and then in the dialog box, modify the device's OAMP interface.



7. Click **Apply** to submit your changes; your connection with the device becomes unavailable at the default IP address (due to the new IP address).
8. Change the IP settings of your computer to correspond with the new OAMP IP address and subnet of the device.
9. Access the device again, but at its' new IP address, and then on the Web interface's toolbar, click the **Save** button; the new IP address is now saved to the device's flash memory.
10. Re-cable the device to the required network. You can now access remotely the device's management interfaces, using the new IP address.

Obtaining Software and Documentation

If you have a maintenance and support agreement with AudioCodes, you can download the device's latest software version from AudioCodes' Services Portal at <https://services.audiocodes.com> (registered users only).

You can also view and download documentation relating to the device (such as the *User's Manual* and *Hardware Manual*) on AudioCodes website at <https://www.audiocodes.com/library/technical-documents>.

Safety Precautions

- The device must be installed and serviced only by qualified service personnel.
- The device is considered as IPX0 non-water ingress protected and therefore, must be installed only indoors.
- Do not expose the device to water or moisture.
- Ethernet cabling must be shielded and routed only indoors, and must not exit the building.
- 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.
- Make sure the device is installed in a well-ventilated location to avoid over heating of internal components and subsequent damage.
- Do not place any object on top of the device and make sure that sufficient clearance from the front and rear are maintained to ensure proper airflow to avoid over heating of internal components.
- Operate the device in an ambient temperature (T_{ma}) that does not exceed 40°C (104°F).
- The device must be installed only in restricted access locations that are compliant with ETS 300 253 guidelines where equipotential bonding has been implemented.
- Operate the device only from the type of power source indicated on the chassis.
- Installation of the device must be in accordance with national electrical codes and conform to local regulations.
- Use only the supplied AC power cord for connection to the power source.
- The device must be connected to an electrical socket-outlet providing a protective earthing connection.
- If you are using both Power Supply modules, connect each one to a different AC power supply source. The two AC power sources must have the same ground potential.

About AudioCodes

AudioCodes Ltd. (NASDAQ, TASE: AUDC) is a leading vendor of advanced communications software, products and productivity solutions for the digital workplace.

AudioCodes enables enterprises and service providers to build and operate all-IP voice networks for unified communications, contact centers, and hosted business services.

AudioCodes offers a broad range of innovative products, solutions and services that are used by large multi-national enterprises and leading tier-1 operators around the world.

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