Before Installing

Congratulations on purchasing your AudioCodes MP-124 DC-Powered Analog Media Gateway! Before you begin using the device, ensure that the following items are included in the shipped box:

- Two brackets and screws for 19-inch rack mounting
- DC terminal block

You’ll also need the following (not supplied):

- RJ-45 Ethernet cables
- PC running a Web browser

**Warning:** MP-124 devices are indoor units and therefore, must be installed **only** indoors. Routing of FXS telephony cables outdoors can be done only in conjunction with AudioCodes’ approved surge protector (Circa model 4B3S-75) and proper installation and grounding. When done correctly, the installation will meet ITU-T K.21 (basic) standards. The Ethernet port interface cabling must be routed **only** indoors and must **not exit** the building.

MP-124 LEDs

MP-124 provides LEDs on its front panel, as shown below and described in the subsequent table.

<table>
<thead>
<tr>
<th>LED</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channels</td>
<td><img src="Green.png" alt="Green On: Off-hook" /> <strong>Red On:</strong> Line malfunction or unavailable due to SRTP enabled <strong>Off:</strong> On-hook</td>
</tr>
<tr>
<td>Data</td>
<td><img src="GreenFlash.png" alt="Green Flash: Transmitting RTP" /> <strong>Red Flash:</strong> Receiving RTP <strong>Off:</strong> No traffic</td>
</tr>
<tr>
<td>Control</td>
<td><img src="Green.png" alt="Green On: Sending/receiving SIP messages" /> <strong>Off:</strong> No traffic</td>
</tr>
<tr>
<td>Lan</td>
<td><img src="Green.png" alt="Green On: 10/100BaseTX link" /> <strong>Red On:</strong> Malfunction</td>
</tr>
<tr>
<td>Ready</td>
<td><img src="Green.png" alt="Green On: Power on" /> <img src="Amber.png" alt="Amber Flash: Initializing" /> <strong>Red On:</strong> Malfunction <strong>Off:</strong> No power</td>
</tr>
</tbody>
</table>
### 3 MP-124 Ports

MP-124 provides ports on its rear-panel, as shown below and described in the subsequent table.

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

<p>| | | | | |</p>
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<tr>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Grounding lug</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>DC power inlet</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>50-pin female Telco connector, supporting up to 24 FXS interfaces</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>DB-9 pin female connector for RS-232 serial interface</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>RJ-45 Ethernet port (10/100BaseTX)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 4 Cabling and Installing MP-124

**Warnings:**

- Prior to installing MP-124, proper grounding (earthing) and power-surge protection must be done; refer to the Hardware Installation Manual for detailed instructions. AudioCodes’ will not bear responsibility to damage that may be caused to the device as a result of not complying with the instructions detailed in the Hardware Installation Manual.
- Prior to connecting MP-124 to power, refer to the Compliancy and Regulatory Information document at https://www.audiocodes.com/library/technical-documents.
- Connect MP-124 to a safety extra-low voltage (SELV) source that is sufficiently isolated from the mains.
- For FXS cabling, you can use your own third-party MDF connector cable or you can use AudioCodes’ MP-124 FXS Patch Panel (ordered separately from AudioCodes). When using a third-party MDF for FXS cabling, to reduce noise interference, use a twisted-pair Octopus cable terminated on a metal-hooded 50-pin Telco connector.

**To cable and install MP-124:**

1. Connect the Ethernet port to your LAN switch, using the RJ-45 Ethernet cable connector.
2. Connect MP-124 to FXS-based analog equipment (for example, telephone, fax, and modem):
   - **Third-party MDF:** Using a twisted 25-pair Octopus cable, connect each wire pair to its corresponding MDF adaptor block socket, and then connect the wire-pairs at the other end to a 50-pin male Telco connector. Connect this to the MP-124 50-pin female Telco connector. Connect your analog equipment to the MDF using RJ-11 cables.
• **AudioCodes MP-124 FXS Patch Panel**: Mount the Patch Panel in a 19-inch rack. Insert and fasten the Patch Panel's 50-pin male connector to the MP-124 50-pin female Telco connector. Connect your analog equipment to the Patch Panel using RJ-11 cables.

3. Connect two 18-AWG wires to the DC terminal block (ensure correct polarity), and then secure the DC terminal block to the MP-124 DC inlet. Connect the other end of the DC cable to a -48 VDC power supply; The Ready LED first flashes amber and then turns green after initialization completes. The Lan LED turns green indicating an Ethernet link.

4. For desktop mounting, simply place MP-124 on a horizontal desk. For 19-inch rack mounting, refer to the Hardware Installation Manual.

5 **Assigning an IP Address**

Your MP-124 is shipped with a default IP address:

✓ **IP Address**: 10.1.10.10  
✓ **Subnet**: 255.255.0.0  
✓ **Default Gateway**: 0.0.0.0

To change the IP address:

1. Unplug MP-124 from the network and reconnect the Ethernet port directly to a PC’s LAN port, using an Ethernet crossover cable.
2. Change your PC’s IP address and subnet mask to correspond with the MP-124 default IP address and subnet mask (see above).
3. In your Web browser, enter the default IP address of MP-124 (e.g., http://10.1.10.10); the MP-124 Web-based management tool opens, requesting your login credentials.
4. Log in using the default (case-sensitive) username ("Admin") and password ("Admin"), and then click Login.
5. Access the Interface table (Configuration tab > VoIP menu > Network > IP Interfaces Table).
6. Modify the IP address to correspond with your network IP addressing scheme, and then click Submit.
7. Save your settings to flash ("burn") in the Maintenance Actions page (Maintenance tab > Maintenance menu > Maintenance Actions); your Web browser disconnects from the MP-124 Web interface.
8. Unplug MP-124 from your PC and reconnect it to the network.
9. Restore your PC’s IP address and subnet mask to their original settings, and then restart your PC and re-access the MP-124 Web interface with its newly assigned IP address.

6 **Configuring Basic SIP Settings**

Configure MP-124 with basic SIP parameters using the Web interface:

To configure basic SIP parameters:

1. In the Coders Table page (Configuration tab > VoIP menu > Coders and Profiles > Coders), configure coders used by MP-124 that best suit your VoIP network and are supported by your VoIP provider.
2. In the Proxy & Registration page (Configuration tab > VoIP menu > SIP Definitions > Proxy & Registration), set the 'Use Default Proxy' field to Yes and the 'Enable Registration' field to Enable.

3. Click the Proxy Set Table button, and then enter the IP address or domain name of the Proxy server provided by your VoIP provider.

7 Setting up your Voice Ports

The MP-124 FXS voice ports are enabled by assigning them a phone number.

To set up your MP-124 voice ports:

1. Open the Endpoint Phone Number Table page (Configuration tab > VoIP menu > GW and IP to IP > Hunt Group > Endpoint Phone Number).
2. In the 'Channel(s)' column, enter the port number (labeled on the rear panel) of the port that you want to enable.
3. In the 'Phone Number' column, enter the port’s phone number (e.g., 401). This number is typically provided by your VoIP provider.
4. Click Submit.

Warning: Burn your configuration settings to flash before resetting or powering down the device; otherwise, your settings will not be preserved.