CAUTION

Before you set up and operate your MB-651, refer to the "Important Regulatory and Safety Notices" document that was included with your MB-651. It is also recommended to refer to the MB-651 User Manual which is available for download from our website.

Rack Mounting

4 x Rack Screws

Keep the following in mind when installing your MB-651:

- Install the MB-651 for maximum stability and adequate ventilation
- Ensure the MB-651 is installed in free air space where the ambient temperature is monitored and controlled to not exceed 40°C (104°F) at the front frame door
- Ensure that adequate space exists in front and behind the MB-651 and on both sides of the frame
- The location of the MB-651 should be accessible, dry, and dust-free

MB-651 Physical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Side</th>
<th>Rear</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clearance</td>
<td>2.00&quot; (50mm)</td>
<td>3.00&quot; (75mm)</td>
</tr>
<tr>
<td>Height</td>
<td>1.75&quot; (44.5mm)</td>
<td></td>
</tr>
<tr>
<td>Width</td>
<td>19.00&quot; (48.26cm)</td>
<td></td>
</tr>
<tr>
<td>Depth</td>
<td>8.5&quot; (21.59cm)</td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td>maximum: 40°C</td>
<td></td>
</tr>
</tbody>
</table>

Ethernet Cabling

Note: Contact your IT Department before connecting to your facility network to ensure that there are no conflicts.

Note: Leave the DIP Switches in their default positions to establish initial communications between the MB-651 and DashBoard. The figure below shows all DIP Switches in the UP position (default).

Note: The MB-651 powers on automatically when the power supply is plugged in.

Video and Audio Cabling

Note: For a -20dBFS input, there will be a +4dBu output.

GPIO Cabling

Note: Shorting the I pin to the G pin will mute the front speakers, and the audio level on the rear monitor ports will be controlled by the front volume knob.

Power Cabling

Note: Contact your IT Department before connecting to your facility network to ensure that there are no conflicts.

Note: Leave the DIP Switches in their default positions to establish initial communications between the MB-651 and DashBoard. The figure below shows all DIP Switches in the UP position (default).

Note: The MB-651 powers on automatically when the power supply is plugged in.

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDI Input and Output</td>
<td></td>
</tr>
<tr>
<td>Number of Inputs</td>
<td>1</td>
</tr>
<tr>
<td>Connector Type</td>
<td>75ohm BNC</td>
</tr>
<tr>
<td>Signal Level</td>
<td>800mV nominal</td>
</tr>
<tr>
<td>Return Loss</td>
<td>-10dB to 3G</td>
</tr>
<tr>
<td>Analog Audio Monitor Output</td>
<td></td>
</tr>
<tr>
<td>Number of Outputs</td>
<td>2</td>
</tr>
<tr>
<td>Connector Type</td>
<td>3-pin terminal blocks</td>
</tr>
<tr>
<td>Reference Level</td>
<td>-20dBFS = +4dBu</td>
</tr>
<tr>
<td>Frequency Response</td>
<td>&lt;=0.05% 20Hz-20kHz</td>
</tr>
<tr>
<td>Distortion</td>
<td>&lt;=0.01% 20Hz-20kHz</td>
</tr>
</tbody>
</table>

Power

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consumption</td>
<td>90-240VAC</td>
</tr>
<tr>
<td>Power</td>
<td>90W</td>
</tr>
</tbody>
</table>
The DashBoard client software enables you to monitor and configure the MB-651 from a computer connected to your facility network. There are two interfaces in DashBoard that display as nodes in the Tree View: Network Connect, and the MB-651 interface.

To launch DashBoard
1. Ensure the MB-651 is connected to the same network as your DashBoard client computer.
2. Double-click the DashBoard icon on your computer desktop.
3. Power on the MB-651.
4. Wait approximately 30 seconds while the MB-651 establishes network communications.
5. Verify that the MB-651 displays in the Tree View of DashBoard.

If the MB-651 fails to display in DashBoard
1. Verify the ethernet cables are properly connected.
2. Check the link/activity LEDs found on the chassis Ethernet port.
3. Ensure the network settings are the factory default values.

To access the MB-651 interfaces
1. From the Tree View, expand the node for the MB-651.
2. Select the Slot 0 node to display the Network Connect interface in the right-half of the DashBoard window.
3. Select the Slot 1 node to display the audio interface in the right-half of the DashBoard window.

Once communication is established with the MB-651, the network settings can be adjusted using the following procedure. Note that the steps are optional, you may perform as many, or as few, as needed.

To change the MB-651 network settings
1. From the Tree View, expand the node for the MB-651.
2. Select the Network Connect node.
3. Use the Addressing Mode options to change between Static and DHCP addressing.
4. Use the IP Address field to specify the address of the MB-651.
5. Use the Subnet Mask field to specify the subnet mask for your LAN.
6. Use the Default Gateway field to specify the IP Address for connection outside the subnet.
7. Click Apply to save and apply the new settings.

Right-clicking an MB-651 mode in the Tree View of DashBoard provides the option to Lock/Unlock Access. Locking an MB-651 requires the user to enter a Master Password before gaining access to the MB-651. Refer to the MB-651 User Manual for details on setting the SW3 DIP Switch.

To set a new Master Password for the MB-651
1. From the Tree View, right-click the MB-651 node.
3. Select the box for the device you wish to set a new password for.
4. Type the current password in the Old Password field.
5. Type the new password in the New Password field.
6. Click OK to apply the new password.

Using the Control Panel
Selecting the audio channels you want to monitor is provided by the push-buttons located below the audio meters, allowing you to select which stereo pair to route to the speakers.

Use the four Mode push-buttons to specify the output mode as follows:
- L — routes the left channel of the selected source to the speakers
- R — routes the right channel of the selected source to the speakers
- SUM — allows any of the channels to be summed together to monitor more than one source at a time
- Lt/Rt — provides an Lt/Rt downmix of your 5.1 surround audio

You can also use the interface in DashBoard to specify the audio channel to monitor.

To setup the audio monitoring via DashBoard
1. From the Tree View, expand the node for the MB-651.
2. Select the node for your MB-651.
3. Use the Input Source field to specify the audio channel to route to the speakers.
4. Use the Volume field to set the volume level of the speakers.