Before you set up and operate your MC1-PANEL-16, refer to the “Important Regulatory and Safety Notices to Service Personnel” document that was included with your unit. It is also recommended to refer to the MC1-PANEL-16 User Guide which is available for download from our website.

MC1-PANEL-16 Installation and Cabling

DIP Switch 1 and DIP Switch 2 are used in conjunction with the DashBoard menus to set the IP Address of the MC1-PANEL-16. Please leave DIP Switch 3 and 4 in their default (UP) positions.

<table>
<thead>
<tr>
<th>DIP Switch 1</th>
<th>DIP Switch 2</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UP</td>
<td>UP</td>
<td>Custom User Setup via DashBoard</td>
</tr>
<tr>
<td>DOWN</td>
<td>DOWN</td>
<td>IP Address is 192.168.2.10, Subnet Mask is 255.255.255.0</td>
</tr>
<tr>
<td>DOWN</td>
<td>DOWN</td>
<td>IP Address is 10.1.2.10, Subnet Mask is 255.255.255.0</td>
</tr>
</tbody>
</table>

DIP Switch 1 and 2 Positions for IP Address Setup

You will require a standard network CAT-5 cable to connect the MC1-PANEL-16 to your facility network. Ensure to use only the Ethernet 1 port.

**Note:** The Ethernet 2 port is not implemented.

**Note:** Refer to the MC1-PANEL-16 User Manual for details on verifying and troubleshooting your ethernet connection.

The MC1-PANEL-16 comes standard with one power supply. For redundancy, and in applications where the equipment is used in a critical signal path, we recommend that two power supplies be used with the MC1-PANEL-16.

**Note:** The MC1-PANEL-16 powers on automatically when the power supply is plugged in.

**Note:** If you are not installing the redundant power supply, the message “PSU 2” is reported on the panel display. To disable this message, navigate to the Alarm Enables tab in DashBoard and de-select the PSU2 Voltage Out of Range check box.

**Specifications**

<table>
<thead>
<tr>
<th>Input Formats</th>
<th>SDI Input Formats</th>
</tr>
</thead>
<tbody>
<tr>
<td>480i, 59.94Hz</td>
<td>720i, 59.94Hz</td>
</tr>
<tr>
<td>576i, 50Hz</td>
<td>720p, 59.94Hz</td>
</tr>
<tr>
<td>1080i, 59.94Hz</td>
<td>1080p, 59.94Hz</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Operating</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage</td>
<td>-20 - 85°C (4 - 185°F)</td>
</tr>
</tbody>
</table>

**Panel Power Consumption**

<table>
<thead>
<tr>
<th>Panel Power Consumption</th>
<th>Default Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC1-PANEL-16, &lt;30W</td>
<td>Ethernet Method: DHCP</td>
</tr>
<tr>
<td>Input Voltage: 100-120V</td>
<td></td>
</tr>
<tr>
<td>220-240V~</td>
<td></td>
</tr>
<tr>
<td>47-63Hz</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** Ross Video strongly recommends installing your Master Control System on a network that is segregated from your facility LAN.

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openGear MC1-MK Cabling

**Input and Reference Cabling**

- From Router Key Video Out
- From Router Preview Out
- From Router Key Alpha Out

**Output and Ethernet Cabling**

- To Reference Source

**Specifications**

**SDI Output Formats**
- 480i 59.94Hz
- 720p 59.94Hz
- 1080i 59.94Hz
- 720p 50Hz
- 1080i 50Hz

**Default Values**
- Ethernet Method: DHCP
- Reference Input: Frame 1
- Output 1: Program
- Output 2: Program
- Output 3: Preview
- Output 4: Clean Field 1
- Remote Control: Serial
- Embedded Audio: Disabled
- Edit Permission: Unlocked

**Maximum Power Consumption**
- OG3-FR Frame: Sum of both PSU not to exceed 375W
- MC1-MK: 22W

**Video Input Specifications**
- Impedance: SDI IN 1: 15dB to 1.5GHz
- Return Loss: SDI IN 1: 15dB to 1.5GHz
- Equalization (using Belden 1694A cable): SD: 120m, HD: 100m
- Operating Temperature: -40°C to 75°C (-40°F to 167°F)
- Storage Temperature: -20°C to 55°C (-4°F to 131°F)

**Video Output Specifications**
- Impedance: SDI OUT 1: 15dB to 1.5GHz
- Return Loss: SDI OUT 1: 15dB to 1.5GHz
- Signal Level: SDI OUT 1: 820mV +/- 10%
- DC Offset: 0V + 0.5V
- Rise and Fall Time: SD: 50ns typical, HD: 150ns typical
- Overshoot: 75ns

**Note:** This illustrates cabling for one MC1-MK card and one MUX-8258 card in an OG3-FR series frame. Your setup requirements may differ than what is presented here. The MUX-8258 is optional.

**Important:** Before you set up and operate your MC1-MK card, refer to the “Important Regulatory and Safety Notices to Service Personnel” document that was included with your card. It is also recommended to refer to the MC1-MK Installation Manual which is available for download from our website.