Up to two ChannelPort modules can be installed in a MediaPort 7000 or a MediaDeck 7000 chassis. (Sample slot configuration shown.)

### ChannelPort 8100 Standard Channel

1. External IN 1 Channel A  
2. OUT (Primary or HD-branded*) Channel A  
3. OUT (Secondary or SD-branded) Channel A  
4. External IN 1 Channel B  
5. OUT (Primary or HD-branded) Channel B  
6. OUT (Secondary or SD-branded) Channel B

RS-422 Port LEDs  
Status  
DS-422 Port LEDs  
Status  

### ChannelPort 8100 Enhanced Channel

1. External IN 1/Key  
2. OUT (Primary or HD-branded**)  
3. OUT (Secondary or SD-branded)  
4. External IN 2/Fill  
5. OUT (Clean Primary**)  
6. OUT (Clean Secondary)

RS-422 Port LEDs  
Status  
Ethernet Port LEDs  
Status  

* "HD/SD-branded" refers to Independent Branding mode.  
** "Clean Primary/Secondary" refers to video output with no graphics or overlays.
ChannelPort 8200 Standard Channel

1. External IN 1 Channel A
2. External IN 2/OUT (if OUT, Primary) Channel A
3. OUT (Secondary or SD-branded*) Channel A
4. OUT (Primary or HD-branded) Channel A
5. External IN 1 Channel B
6. External IN 2/OUT (if OUT, Primary) Channel B
7. OUT (Secondary or SD-branded) Channel B
8. OUT (Primary or HD-branded) Channel B

Notes:
• Connections 1-8 use DIN 1.0/2.3 connectors.
• See “ChannelPort 8200 Standard Channel Mode Configurations” on page 4 for configuration options.
* "HD/SD-branded" refers to Independent Branding mode.

ChannelPort 8200 Enhanced Channel

1. External IN 1/Key 1
2. External IN 2/Fill 1
3. External IN 3/OUT (if OUT, Secondary or SD-branded*)
4. OUT (Primary or HD-branded)
5. External IN 4/Key 2
6. External IN 5/Fill 2
7. External IN 6/OUT (if OUT, Clean Secondary**)  
8. OUT (Clean Primary/Secondary or SD-branded)

Notes:
• Connections 1-8 use DIN 1.0/2.3 connectors.
• See “ChannelPort 8200 Enhanced Channel Mode Configurations” on page 4 for configuration options.
* "HD/SD-branded" refers to Independent Branding mode.
** "Clean Primary/Secondary" refers to video output with no graphics or overlays.
1. From the rear of the MediaPort 7000 or MediaDeck 7000, unscrew the two lock screws that secure the filler panel and remove the filler panel.

Caution: Do not use the two lock screws on the rear panel of the module to pull it into position. Tighten the screws only after the module is fully inserted.

2. Grasp the module handle and push firmly into the slot. Ensure the module is fully inserted by pressing on the connectors with the palm of your hand.

3. Tighten the two lock screws on the rear of the module to secure it to the chassis.

4. If installing two modules, repeat steps 1-3 for the second module.

For complete installation instructions, refer to the Spectrum System Installation and Hardware Reference Guide.

Connecting the ChannelPort Module to an Automation System

For graphics control automation, connect the ChannelPort GPIO connector to an automation system. All automation systems differ in their array of control connectors and methods of interfacing with the ChannelPort. The following diagram is one example.

Note: The DB-9 male-to-male extension cables and the GPIO cable in this diagram are customer supplied. The RJ-45-to-DB-9 cable is supplied by Harmonic.

GPIO/RS-422 Signal Assignments

The ChannelPort module has a female GPIO/RS-422 connector that can be used to control players or graphics. For more information on configuring GPIO using SystemManager, refer to “ChannelPort Configuration” in the SystemManager User Guide.
### ChannelPort 8200 Standard Channel Mode Configurations

The ChannelPort 8200 module offers eight DIN 1.0/2.3 connectors for video input and output. The following table shows the possible connector configurations for Standard Channel mode.

<table>
<thead>
<tr>
<th>Configuration</th>
<th>DIN 1</th>
<th>DIN 2</th>
<th>DIN 3</th>
<th>DIN 4</th>
<th>DIN 5</th>
<th>DIN 6</th>
<th>DIN 7</th>
<th>DIN 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Channel (SC) 1</td>
<td>External Input 1 (Channel A)</td>
<td>Out, Primary (Channel A)</td>
<td>Out, Secondary (Channel A)</td>
<td>Out, Primary (Channel A)</td>
<td>External Input 1 (Channel B)</td>
<td>Out, Primary (Channel B)</td>
<td>Out, Secondary (Channel B)</td>
<td>Out, Primary (Channel B)</td>
</tr>
<tr>
<td>Standard Channel (SC) 2</td>
<td>External Input 1 (Channel A)</td>
<td>External Input 2 (Channel A)</td>
<td>Out, Secondary (Channel A)</td>
<td>Out, Primary (Channel A)</td>
<td>External Input 1 (Channel B)</td>
<td>External Input 2 (Channel B)</td>
<td>Out, Secondary (Channel B)</td>
<td>Out, Primary (Channel B)</td>
</tr>
</tbody>
</table>

### ChannelPort 8200 Enhanced Channel Mode Configurations

The ChannelPort 8200 module offers eight DIN 1.0/2.3 connectors for video input and output. The following table shows the possible connector configurations for Enhanced Channel mode.

<table>
<thead>
<tr>
<th>Configuration</th>
<th>DIN 1</th>
<th>DIN 2</th>
<th>DIN 3</th>
<th>DIN 4</th>
<th>DIN 5</th>
<th>DIN 6</th>
<th>DIN 7</th>
<th>DIN 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enhanced Channel (EC) 1</td>
<td>External Input 1/ Key 1</td>
<td>External Input 2/ Fill 1</td>
<td>Out, Secondary</td>
<td>Out, Primary</td>
<td>External Input 4/ Key 2</td>
<td>External Input 5/ Fill 2</td>
<td>Out, Primary</td>
<td>Out, Clean Primary</td>
</tr>
<tr>
<td>Enhanced Channel (EC) 2</td>
<td>External Input 1/ Key 1</td>
<td>External Input 2/ Fill 1</td>
<td>Out, Secondary</td>
<td>Out, Primary</td>
<td>External Input 4/ Key 2</td>
<td>External Input 5/ Fill 2</td>
<td>Out, Clean Secondary</td>
<td>Out, Clean Primary</td>
</tr>
<tr>
<td>Enhanced Channel (EC) 3</td>
<td>External Input 1/ Key 1</td>
<td>External Input 2/ Fill 1</td>
<td>External Input 3</td>
<td>Out, Primary</td>
<td>External Input 4/ Key 2</td>
<td>External Input 5/ Fill 2</td>
<td>External Input 6</td>
<td>Out, Secondary</td>
</tr>
</tbody>
</table>

### Licensing for the ChannelPort Module

The following features are available for ChannelPort 8100/8200: SD, HD, MPEG-2, DV, VC-3, four or eight Graphics Layers, ProRes, and support for an Emergency Alert System (EAS). The following table shows additional licensed features available for ChannelPort.

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPL-OPC</td>
<td>Onboard playout control for one channel of Spectrum ChannelPort or MediaPort 7000</td>
</tr>
<tr>
<td>SPL-OMF</td>
<td>Onboard Media Fetch for one channel of Spectrum ChannelPort or MediaPort 7000</td>
</tr>
<tr>
<td>SPL-STL</td>
<td>Onboard subtitle insertion license for one channel of Spectrum ChannelPort or MediaPort 7000</td>
</tr>
<tr>
<td>SPL-OCC</td>
<td>Onboard closed caption insertion license for one channel of Spectrum ChannelPort or MediaPort 7000</td>
</tr>
<tr>
<td>CPL-MCS</td>
<td>Master Control (Live Input) license upgrade for one ChannelPort module (2 ch)</td>
</tr>
<tr>
<td>CPL-DVE</td>
<td>License upgrade to enable capability for a single DVE for one ChannelPort module (2 ch)</td>
</tr>
<tr>
<td>CPL-HD</td>
<td>HD license upgrade (no U/D/X Conversion) for one ChannelPort module (2 ch)</td>
</tr>
<tr>
<td>CPL-H264-PLAY</td>
<td>License upgrade for PitchBlue® TS demux and H.264 decode for PitchBlue operating points only (2 ch)</td>
</tr>
<tr>
<td>CPL-UDX</td>
<td>U/D/X Converter license upgrade (HD option is also required) for one ChannelPort module (2 ch)</td>
</tr>
<tr>
<td>CPL-AVC-INTRA-PLAY</td>
<td>Decode of AVC-Intra for one ChannelPort module (2 ch)</td>
</tr>
<tr>
<td>CPL-MAX-GRAPHIC-LAYERS</td>
<td>License upgrade to enable the maximum number of graphics layers on a ChannelPort module (2 ch)</td>
</tr>
<tr>
<td>CPL-ENHANCED-CHANNEL</td>
<td>License upgrade to enable Enhanced Channel mode on a ChannelPort module (2 ch)</td>
</tr>
<tr>
<td>CPL-INDEP-BRANDING</td>
<td>License upgrade to enable Independent SD/HD Branding on a ChannelPort module (2 ch)</td>
</tr>
<tr>
<td>CPL-DUAL-DVE</td>
<td>License upgrade to enable Dual DVE functionality on a ChannelPort module (2 ch)</td>
</tr>
</tbody>
</table>