Remote General Purpose Interfaces
Contact Closure Interfaces

The RCP-GPI32p and RCP-GPI64p provide input and output contact closure interfaces for use with Imagine Communications routers. These devices allow interfacing of routers with external devices by providing the most basic of interface mechanisms, a contact closure. The three models vary in the number of contact closures, in their physical construction and in the capabilities that they provide.

The GPI inputs can be used to select router crosspoints. A source will be selected whenever the corresponding GPI input pair is shorted momentarily.

Features
- Provide simple contact closure inputs and outputs
- Contact closure inputs select router inputs
- Contact closure outputs tally router status
- Single Bus or X-Y Control (X-Y control GPI-40 only)
- Configurable for Joystick Override

Details
When GPI inputs are being used to control a single destination of a routing switcher, it is possible to configure the GPI inputs to behave in Joystick Override mode. In this mode the crosspoint is selected by shorting the appropriate contact pair. The crosspoint is held until the contact is released. At which point, the crosspoint returns to the last selection made from a control panel or by the serial port. This configuration is often used in camera applications to allow the camera operator to momentarily override router selections.

As with all other members in the Programmable Panel series these units can be easily programmed using the RouterMAPPER® utility included with the units. The mapping is very flexible allowing any GPI input and output to perform any function. This feature makes these units very powerful and flexible.

RCP-GPI32p
The RCP-GPI32p is an external (remote) interface which provides 32 input and output contacts. It can be configured to control and or tally a single destination within a router. The first 32 contacts control 32 consecutive sources (32x1 control). The remaining four contacts may be used as bank selects extending the capability of the RCP-GPI32p to select and tally up to 64 inputs (64x1 control).

RCP-GPI64p
The RCP-GPI64p is an external (remote) interface which provides 64 input and output contacts. The RCP GPI64p is capable of both single destination and X-Y control. In single destination configuration the RCP GPI64p can control up to 64 consecutive sources (64x1). In X-Y configuration the RCP-GPI64p can be used to select both sources and destinations allowing it to control the full matrix rather than a single destination. The RCP-GPI64p controls matrices of 16x16 up to 64x64.

Ordering Information

<table>
<thead>
<tr>
<th>Description</th>
<th>Model</th>
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<tbody>
<tr>
<td>Remote Contact Closure Control For Integrator, VIA, X PLUS, MIX BOX and Card Series:</td>
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<tr>
<td>RCP-GPI32p</td>
<td>Remote 32 input contact closure interface</td>
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<tr>
<td>RCP-GPI64p</td>
<td>Remote 64 input contact closure interface</td>
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<tr>
<td>RCP-GPIEX</td>
<td>GPI expander module. Converts GPI32p to GPI64p</td>
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Notes:
Care must be taken when configuring a system which includes GPI interfaces and control panels in the Programmable Panel Series. (Programmable Panel Series panels are identified by the inclusion of the letter ‘p’ at the end of the model number: e.g., RCP-16x16p or RCP-ABA-AVF-p). Because the GPI devices control the router using physical input and output numbers and Programmable Panel Series feature logical mapping of source and destinations, operator confusion may occur.