

# IQGPI00/01/04

## Configurable General Purpose Interface

The IQGPI00/01/04 is a configurable control module for external devices and all RollCall compatible products.

This module uses the latest intelligent control software developed from the RollPod technology from Grass Valley. This will allow the GPI to become a central controller for the most demanding network configuration. GPIs can be assigned to RollCall commands as before, but now with the aid of a PC program (RollPod Designer) the GPI can literally interact with the RollCall network environment, unleashing complex interactivity between external devices and/or other Grass Valley products.

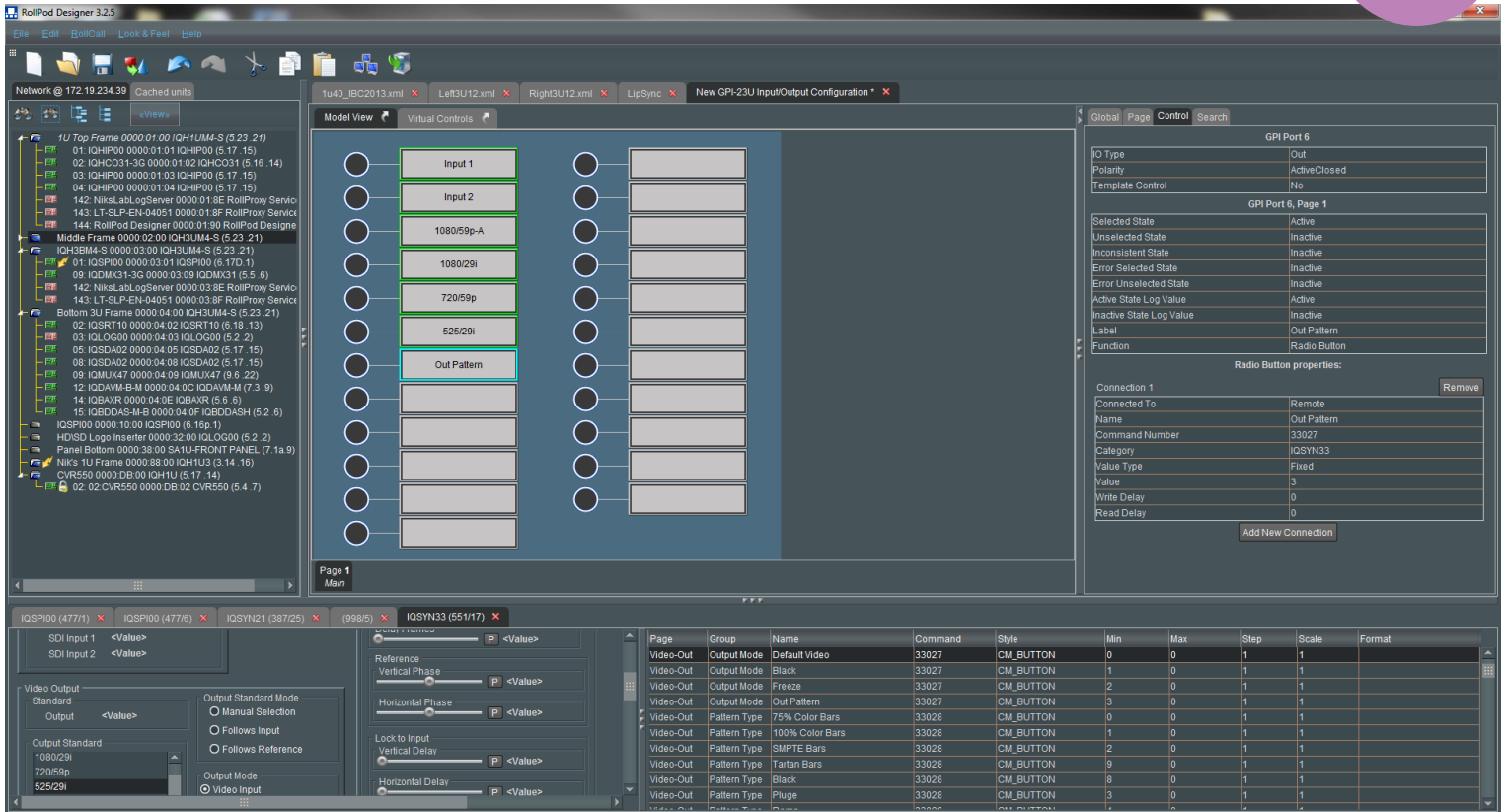
### Why should you choose this module?

- Flexible bridging between RollCall and third-party products to provide comprehensive control and tally solutions
- Multiple events to multiple units can be initiated from a single GPI trigger
- External GPI inputs can be configured to trigger multiple RollCall events to multiple units on the RollCall network
- Configuration via the RollPod Designer GUI allows you to browse the RollCall network, select controllable devices then drag and drop the required functionality straight onto the relevant RollPod device from a simple software user interface allowing control of the functions on your Grass Valley equipment. RollPod Designer is provided with the free RollCall Lite download available from the Grass Valley website

### KEY FEATURES

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- Control products on the RollCall Network via external events, or vice versa
- 11 optically isolated I/O interfaces, plus 1 which is non-isolated (IQGPI01, 04)
- Outputs from IQGPI04 can switch up to  $\pm 48V$  at currents up to  $\pm 1A$
- 23 GPI non-isolated unbalanced I/O interfaces (IQGPI00)
- Customizable solution allows programming of multiple events from a single trigger
- Outputs may drive relays or LEDs
- Direct connection to the RollCall network
- 200 mA 5V power supply available on connector



**SPECIFICATIONS**

**Inputs and Outputs**

GPI  
User power supply

**Indicators**

Data received  
PSU overload

**Additional RollCall Functions**

**Configure GPI**

- GPI input triggers RollTrack output(s)
- GPI input triggers RollCall logging messages
- RollTrack input triggers GPI output, plus additional RollTrack outputs

**General Specifications**

**Inputs/Outputs**

- IQGPI00 Connector/format: 25-way D-Type, 23 unbalanced optically isolated
- IQGPI01/04 Connector/format:
  - 25-way D-Type, 11 balanced optically isolated
  - 25-way D-Type, 1 unbalanced optically isolated

**Input Specification**

Voltage limits: -5V to +30V  
Logic 1: +2.5V to +30V

**Output Specification**

Maximum on current: 50 mA (1A – IQGPI04)

**Power Source**

Voltage: 5V ± 0.5V  
Maximum current: 100 mA  
Maximum load: Short-circuit

**Power Consumption**

Module power consumption:
 

- 2.5W Max (A Frames)
- 2.0 PR Max (B frames)
- 5W Max (IQGPI04)

**EMC Performance Information**

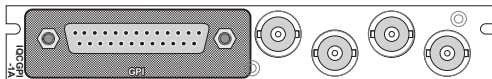
Environment: Commercial and light industrial E2  
Peak mains inrush current following a 5 second mains interruption: No mains input  
Performance information: No performance degradations or cable length limitations

**ORDERING**

**IQGPI0015-1A**

**Configurable General Purpose Interface**

1x D25, 23x Unbalanced GPI input or output ports, 1x RollNet BNC



**IQGPI0115-1A**

**Configurable General Purpose Interface**

1x D25, 12x GPI input or output ports (11 Balanced, 1 Unbalanced), 1x RollNet BNC

**IQGPI0415-1A**

**Configurable General Purpose Interface**

1x D25, 12x GPI High Power Relay Output Ports (11 Balanced, 1 Unbalanced), 1x RollNet BNC

For more details on enclosure types please refer to the IQ Modular Enclosures datasheet.



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