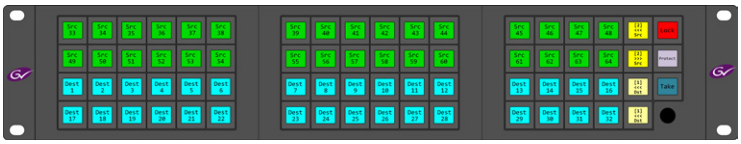
DATASHEET



6026-RC Series

2 RU LCD Mains Powered Control Panels

For use with Sirius 800, Vega and Pyxis routers.

6026-RC panels from Grass Valley have been designed to meet the exacting requirements for hardware control panels used in simple or complex routing systems.

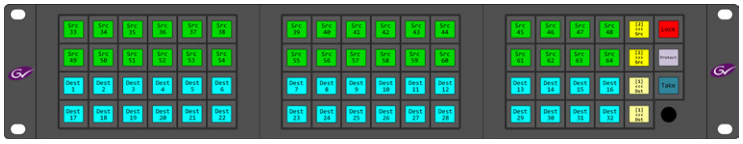
All panels are configured using proprietary RollCall software launched via an applet addressed from a PC web browser.

The range consists of just two 2 RU LCD panels. Both can be configured for X-Y or BPX operational modes.

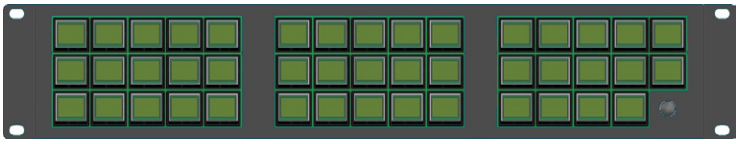
RC panels are independently configured over an IP network. A configuration file can be stored and copied to other panels (of the same type) or indeed loaded to a new panel when exchanging a faulty unit.

KEY FEATURES

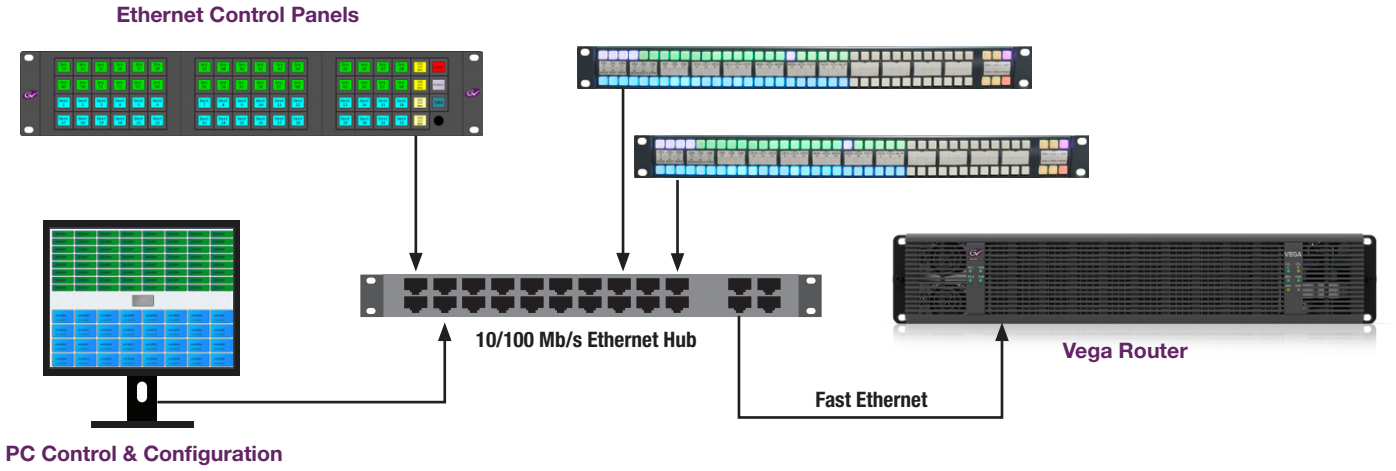
- Lightweight ergonomic design
- Fast Ethernet connection to router
- 12 GPIO ports
- Independent key allocation
- Programmable key color backlights
- Independent source and destination up/down paging keys
- Rotary control paging on LCD types
- LCD text options
- Dual 12V DC inputs with external converter(s) for mains supply



71-Key LCD X-Y/BPX + Rotary Control Knob — 6026783RCSB



44-Key LCD X-Y/BPX + Rotary Control Knob — 6026481SB



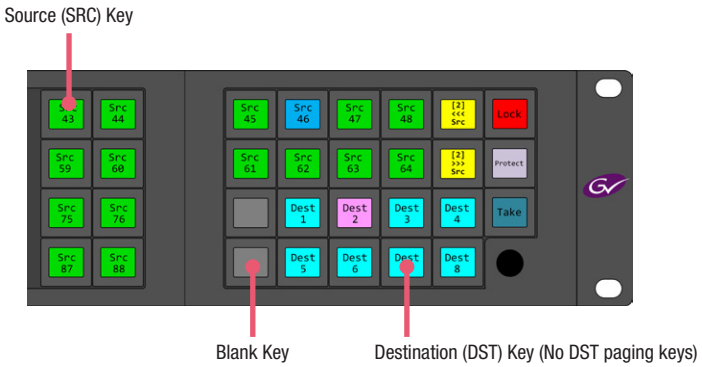
Configuration via Web Browser

Configuration of RC panels is implemented via a PC web browser. The panel applet will render on entering a default IP address. The panel address can be changed to your system requirements from the main configuration panel and the IP address of the router entered. Facility also exists to upgrade the panel configuration software over the internet should additional features be added. A set of intuitive menus allow you to custom build the panel layout to your specific needs. Once the layout has been determined, source and destination keys can be mapped to the appropriate ports on the router. Porting of source and destination names is automatic as soon as connection is established with the router controller. Changes to the panel configuration can be made while a system is operational by reactivating the applet.

6026 series shallow control panels are compatible with Nucleus2 (246x) controllers as used in the Sirius 800 range of routers. They are also the recommended panel types for use with the Vega Asymmetric router (see example system on the previous page). Connection to a router for all RC panel types is IP Ethernet only (either directly or via a hub) over standard CAT5/6 cabling using RJ45 connectors.

Fully Flexible Source/Destination Key Positioning

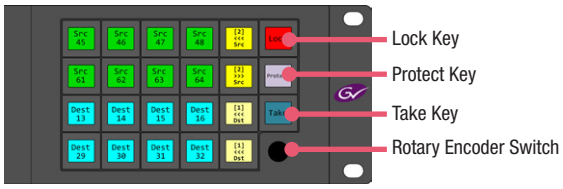
RC panels provide free-form key function and positioning with the exception of just three which are fixed (see next page). All of the remaining keys can be independently configured as source (SRC), destination (DST) or paging keys (optional). Panels not requiring paging can use the additional keys as SRC or DST. Shown below is an LCD panel in X-Y mode using a horizontal SRC/DST key layout and another with a vertical layout. In the horizontal layout, for instance, it may be that an operator would prefer the DST keys to be in the top row with the SRC keys below. This is simple to configure in the RC panel range.



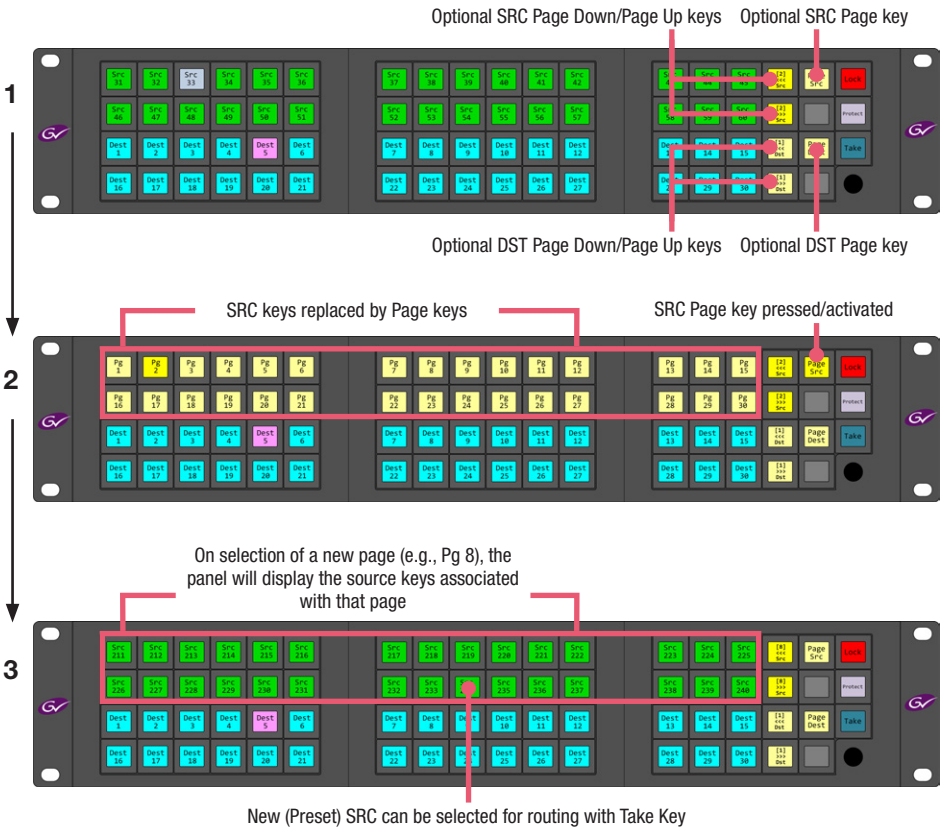
Fixed Keys & Rotary Encoder Switch

Positions of the Protect, Lock and Take keys (or buttons) are fixed on both panel types. If either or both the Protect and Take keys are disabled during configuration they will not display. Backlight illumination of the Lock/Unlock key can be configured as Red, Green or Amber for either status.

The panels include a Rotary Encoder Switch for paging as an alternative to (or in conjunction with) the Page Up and Page Down keys. Pressing the rotary encoder swaps its operating mode between source and destination paging.



Example Paging Scheme:



Paging — Optional Page Up, Page Down and/or Page Mode Keys

Optional keys that can be used with or without the Page Up and Page Down keys are the SRC Page and DST Page keys. On pressing the SRC Page key, for instance, all the displayed SRC keys will change to display an array of dedicated page keys. On selecting a new page the display will revert to the new set of SRC keys associated with that page.

The number of pages (and their names) can be set during configuration. Each page can be compiled from any of the router sources and in any order. Individual sources can appear multiple times on different pages. The equivalent is true for destination pages.

Button per Crosspoint (BPX) operation

All RC panel types can be configured for X-Y or BPX (Button per Crosspoint) modes of operation. In BPX mode, each key can be individually assigned to a destination allowing either full panel schemes or any combination and number of Split BPX configurations.

Other RC Series Panel Features

Custom Key Color and Brightness

All keys are backlit with RGB LEDs. During configuration the color and brightness for each functional key type and state can be customized depending on user preference. Alternatively, factory preset value can be selected for each key type.

Illumination of Blank Keys and Text Insertion

Assigned but unused keys can remain illuminated. Key color, brightness and text can be customized.

Joystick Override via GPI Port

Twelve GPI override inputs are available on both panel types. During panel configuration each GPI is assigned a source for routing (on GPI activation) to the currently selected destination.

SPECIFICATIONS

Ethernet Control
Physical Layer: Ethernet
Standards: 10/100 Base-T Mb/s
Protocol: TCP-IP
Connector: RJ45 (x1)

GPIO (All types)
Physical Layer: +12V, 0.2A output
Connector: 15-way D female/screw lock

Resets
CONFIG Switch & LED: Restores Factory IP Address
RESET Switch & LED: Panel Reset

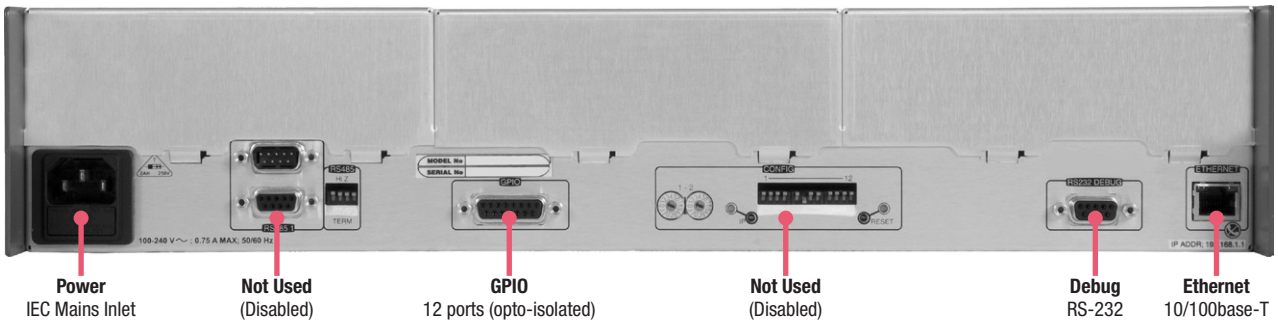
Physical
Mounting Height: 2 RU
Height 1 RU: 88 mm
Width: 448 mm
Depth: 200 mm (behind mounting face)
Weight: <1 kg (2.2 lbs.) max. (all types)

Environmental
Operating Temperature: 0°C to 40°C (32°F to 104°F)
Maintained Spec.: 0°C to 30°C (32°F to 86°F)
Storage Temperature: -20°C to 80°C (-4°F to 176°F)
Relative Humidity: 5% to 95% (non-condensing)
Cooling: Natural convection

Power
Connector: Fused IEC Inlet (2A quick blow)
Voltage: 100-240 V_{RMS} 50/60 Hz (0.75 A max.)
AC input power: 30W max.

Compliance
EMC – Emmissions: EN55103-1 (EU), FCC Part 15 (USA
EMC – Immunity Safety: EN55103-2 (EU) EN60950 (EU), UL1419 (USA)
Hazardous Material: RoHS-6 (UK) – Complies with EU Directive

2 RU Rear View — Both Types



ORDERING

6026783RCSB
2 RU 71-key LCD Control Panel with Rotary Encoder Knob

6026481SB
2 RU 44-key LCD Control Panel with Rotary Encoder Knob