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Copies of this release and related photographs: <https://www.opto22.com/about-us/pressroom>

## Opto 22 Releases Four-Port Serial Communication Module for new *groov* EPIC System

*GRV-CSERI-4 serial modules expand EPIC system capabilities to add communication with RS-232 and RS-485 serial devices*

Temecula, CA - October 4, 2018 – Opto 22 announces the release of the *groov* serial I/O module, GRV-CSERI-4. This module plugs into a *groov* EPIC® chassis alongside Opto 22's new *groov* Edge Programmable Industrial Controller (EPIC) and discrete and analog I/O modules, to provide the mix of analog, discrete, and serial signals you need at any location.

Many industrial automation applications require communication between the controller and multiple serial devices. This new module provides four independent and isolated serial ports for this purpose, communicating with RS-232 or RS-485 serial devices. Up to 4 modules can be installed in one *groov* EPIC chassis, providing a total of 16 serial ports to support these communication requirements.

Each port is selectable for RS-232 or RS-485 mode, with programmable termination and bias as well as half- or full-duplex options in RS-485 mode. Baud rates of up to 1 Mbps are supported.

For serial devices communicating via standard protocols, the included PAC Control flowchart-based programming software offers communication handles to serial devices. Or use *groov* EPIC's Ignition Edge® from Inductive Automation®, which provides support for hundreds of communication drivers. For serial devices requiring the development of custom drivers, *groov* EPIC supports secure shell access, SDKs and a cross-compiler for custom user-written applications.

Once communication is established with serial devices, multiple programming options are available with *groov* EPIC to link devices. PAC Control provides English-language commands, and the included Node-RED, a flow-based development environment and runtime for edge data processing, handling, and communications, offers serial nodes you can download.

The rugged module operates in temperatures from -20 to 70 °C (-40 to 85 °F) and relative humidity (non-condensing) of 5-95%. Agency approvals include UL/cUL (Class 1 Div. 2); CE, ATEX (Category 3, Zone 2), RoHS; DFARS; and CB Scheme.

The GRV-CSERI-4 plugs into a *groov* EPIC I/O chassis. The module pivots into a slot on the chassis and is held securely in place by a captive retention screw. Wiring is simplified with a top-mounted connector and spring-clamp terminals for easy connection to all types of RS-232 and RS-485 devices. The connector is held in place by a single, captive retention screw—but can be removed with field wiring intact for wiring in advance or easier module field replacement.

A swinging, two-position cover protects wiring from inadvertent contact, as does the dead-front design. The two positions of the cover offer the option of more space to accommodate wire sizes from 28-14 AWG. The module cover provides a touch-sensitive pad; simply touch the pad and the *groov* EPIC processor displays information about the module, including specifications and wiring diagrams. The module cover also provides a large LED to indicate module health at a glance, plus a transmit and receive LED on each port.

The GRV-CSERI-4 I/O modules are hot swappable—which means they can be installed or removed without turning off the unit or stopping control—and self-identifying; as soon as you mount the module on the chassis, it communicates to the processor and identifies itself.

Each module is factory tested twice before shipment and is guaranteed for 30 months.

For more information on the *groov* GRV-CSERI-4 I/O module, please go to

<https://www.opto22.com/products/product-container/grv-cseri-4>.

## About Opto 22

Opto 22 designs and manufactures industrial control products and Internet of Things platforms that bridge the gap between information technology (IT) and operations technology (OT). Based on a core design philosophy of leveraging open, standards-based technology, Opto 22 products are deployed worldwide in industrial automation, process control, building automation, industrial refrigeration, remote monitoring, and data acquisition applications. Designed and manufactured in the U.S.A., Opto 22 products have a worldwide reputation for ease-of-use, innovation, quality, and reliability. For over 40 years OEMs, machine builders, automation end-users, and information technology and operations personnel have and continue to trust Opto 22 to deliver high-quality products with superior reliability. The company was founded in 1974 and is privately held in

Temecula, California, U.S.A. Opto 22 products are available through a global network of distributors and system integrators. For more information, contact Opto 22 headquarters at +1-951-695-3000 or visit [www.opto22.com](http://www.opto22.com). Follow us on [Twitter](#), [Facebook](#), [LinkedIn](#), [YouTube](#).

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