Opto 22 Releases Three New *groov* EPIC I/O Modules

New I/O modules address demands of specialty and low-cost applications, including dry contact monitoring, temperature control and mixed voltage.

Temecula, CA - October 22, 2019 – Opto 22 announces the release of three new *groov* EPIC® input/output modules, further extending an already comprehensive industrial I/O portfolio. For system integrators and engineers, the new I/O modules provide more options for bringing existing devices into *groov* EPIC, as well as meeting precise requirements for temperature control applications. They also include budget-beating designs for mixed signal types, signal isolation, and channel density:

GRV-IDCSW-12 (discrete input, 12 channels, DC contact switch status) monitors the open/closed status of dry contact switches, and provides the necessary excitation voltage to power the circuit. This module is ideal for monitoring distributed IT equipment, benchtop analyzers, motor run/stop relays, or any device that offers only a dry contact for status. Because there's no need to install separate power supplies to drive these dry contacts—since wetting and monitoring are both provided—this module can save considerable time, money, space, and installation effort.

GRV-IVI-12 (analog voltage input, 12 channels, ±1.25 to ±160 V, channel-to-channel isolation): With 12 isolated channels, each configurable to one of eight ranges from ±1.25 to ±160 V, this module eliminates the need to segregate I/O signals over multiple modules, providing significant cost and space reduction for mixed voltage applications. The GRV-IVI-12 has 20-bit resolution and is accurate to 0.1% of the configured range. It includes options for scaling, filtering, averaging, and more, speeding development time and distributing computation functions down to the I/O module.

GRV-IRTD-8 (analog input, 8 channels, temperature/RTD or resistor) increases options for accuracy and I/O density in temperature applications. It provides 8 channels for 2- and 3-wire RTD inputs, with a maximum range of −200 °C to 850 °C. Users can take advantage of multiple fixed

ranges or one of two auto-ranging methods to simplify configuration. GRV-IRTD-8 can also be used for high-resolution resistance measurements, with accuracy ranging from 4.2 Ohms at the 8K Ohm input range to 0.058 Ohms at the 10 Ohm range for 3-wire RTDs.

PAC Project 10.2003 or the Opto 22 Library Package for CODESYS v1.0.2.0 are required for full support of these modules.

Opto 22 designs *groov* I/O modules with the end user in mind, including many features to make them easy to specify, install, configure and support for even the most challenging applications. These new modules continue that tradition with the following features:

- Two-position, hinged LED module cover that indicates module status and covers field terminations
- Touch-sensitive pad to trigger module information display on the *groov* EPIC processor
- Removable top-mounted connector with single, captive retention screw
- Spring-clamp field wiring terminals
- Hot swappable for installation and removal without turning off or stopping the system
- UL Hazardous Locations approved and ATEX compliant
- Wide operating temperature range of −20 to +70 °C
- Individually calibrated and factory tested twice—no statistical testing
- Guaranteed for life

With this latest module release, users can choose from almost 40 types of *groov* I/O modules to support their application requirements. Combined with its variety of embedded software tools for control, visualization and connectivity, this extensive I/O family makes *groov* EPIC one of the most versatile tools for industrial automation and IIoT (industrial internet of things) systems.

Availability

GRV-IDCSW-12 ($450), **GRV-IRTD-8** ($855), and **GRV-IVI-12** ($995) will be available on October 28th. All modules can be purchased through Opto 22's global network of distributors and system integrators, or directly via www.opto22.com and +1-800-321-OPTO.

About Opto 22

Opto 22 designs and manufactures industrial automation and control products and internet of things systems that bridge the gap between information technology (IT) and operations

technology (OT), under the brand names *groov* EPIC, SNAP PAC, PAC Project, FactoryFloor, mistic, Optomux, and more. 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. Follow us on Twitter, Facebook, LinkedIn, YouTube, Instagram.

OPTO 22   **Corporate Headquarters**
43044 Business Park Drive, Temecula, California, 92590-3614, U.S.A.
Local: 951.695.3000 • Toll-free: 800-321-6786 • FAX: 951.695.3095 • www.opto22.com