



Opto 22's New groov Box Offers Mobile Access Anywhere

Second-generation groov Box industrial appliance distributes automation systems to mobile devices with faster operation, wider operating temperature range, and smaller footprint.

Haarlem, The Netherlands – May 14, 2014 – Industrial automation manufacturer Opto 22 has announced a new **groov** Box (GROOV-AR1) that hosts groov mobile operator interfaces for virtually any automation system. Users simply connect their automation system to **groov**, and then connect authorized mobile devices to **groov** via either a web browser or an app interface. This allows each mobile device to interact with the automation system in a secure and predefined manner.

This new industrially hardened web-serving appliance sports a wide 0-70°C operating temperature range, compact footprint, complete solid-state fanless design with no moving parts, high-performance quad-core processing, gigabit Ethernet interfaces, and USB expansion for wireless LAN interfaces. Measuring just 106 x 171 x 33 mm, the compact size and rugged design of the **groov** Box make it perfectly suited for deployment in harsh industrial environments. The **groov** Box is manufactured in and supported from the U.S.A., and Opto 22 product support is free.

What's groov?

The **groov** Box industrial appliance runs **groov**, a zero-programming, web-based way to build, deploy, and view effective, scalable operator interfaces to monitor and control automation systems and associated components, equipment, and processes.

These operator interfaces can be viewed on almost any mobile device or computer regardless of its manufacturer, operating system, or screen size, and two-way communication allows remote control for authorized and authenticated users. Supported devices for groov include smartphones, tablets,

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Related photographs are available at
<http://groov.com/pressroom/#photos>

computers, and even smart high-definition televisions. groov augments existing human-machine interfaces (HMIs) and Supervisory Control and Data Acquisition (SCADA) systems by making important information available at any time and in any location.

groov uses a standard method of securely communicating with devices on the plant floor including PLCs, DCSs, PACs, databases, and OPC-DA servers-called OPC Unified Architecture (OPC UA). As an OPC-UA client, **groov** can quickly and easily browse system tags from an OPCUA server. OPC-UA servers are available from several companies. Also, because HMI and SCADA systems from automation manufacturers like Allen-Bradley, GE, and Siemens often include OPC-UA support, you may already have an OPC-UA server installed and running.

To demonstrate the power of **groov**, a fully functional trial version of the software-only **groov** Server for Windows is available to download and try so you can see your own system's data on a smartphone, tablet, or other mobile device. You can operate **groov** for up to two hours without a license, and restart if more time is required. Any projects you build with this free trial version of **groov** Server for Windows can be run on the new **groov** Box with no configuration or changes required.

Pricing and Availability

The new **groov** Box industrial appliance (pin GROOV-AR1) is available now at a list price of € 2180,-. For more information, contact Mulder-Hardenberg.

About Opto 22

Opto 22 develops and manufactures hardware and software for applications involving industrial automation and control, energy management, remote monitoring, and data acquisi-

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tion. Designed and made in the USA, Opto 22 products have an established reputation worldwide for ease-of-use, innovation, quality, and reliability. Opto 22 products, including the groov mobile operator interface, use standard, commercially available networking and computer technologies, and are used by automation end-users, OEMs, and information technology and operations personnel in over 10,000 installations worldwide. The company was founded in 1974 and is privately held in Temecula, California, USA. Opto 22 products are available through a global network of distributors and system integrators.



About Mulder-Hardenberg

Mulder-Hardenberg Haarlem, founded in 1927, is a leading and reliable supplier of electronic and electrical products and solutions for telecom, datacom and industrial markets. The solutions provided by the organization are known for their high added value. In addition to the headquarters in Haarlem, there are also offices in Antwerp and Frankfurt, which gives Mulder-Hardenberg a leading position in the Benelux and Germany. The customers of Mulder-Hardenberg are system integrators, large installers, OEM's, R&D centres and engineering consultants. In cooperation with these parties industrial products and installations are developed and industrial automation and networking projects are implemented throughout Europe. Long-term relationships with customers and manufacturers are very important for Mulder-Hardenberg. Thanks to the thorough knowledge and experience of the staff it is possible to provide the best service.

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