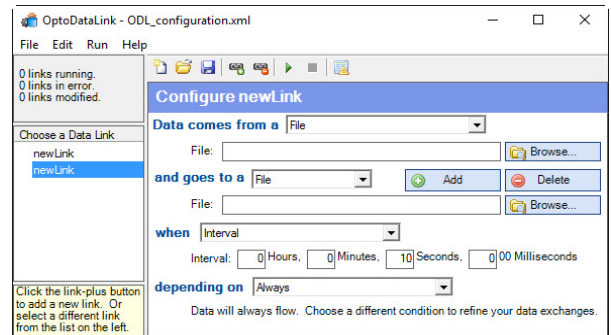


## OPTODATALINK

### Features

- > Integrates Opto 22 SNAP PAC controllers and brains with databases and other enterprise business systems
- > Creates data conduits between multiple controllers, databases, and other systems
- > Provides easy setup and configuration, with no need to recreate control strategy tagnames



OptoDataLink main window

### DESCRIPTION

OptoDataLink™ from Opto 22 is connectivity software for Microsoft® Windows® that collects data from Opto 22 SNAP PAC industrial controllers and other sources, and then sends that data to one or more destinations. OptoDataLink supports sending data to:

- **Databases**, including Microsoft SQL Server®, MySQL®, Microsoft Access®, and other ODBC-compliant databases
- **SNAP PAC controllers and brains**
- **ASCII text files**

Data can be sent to any of these destinations—or all of them—simultaneously. Applications that are well suited for OptoDataLink include data archival and data warehousing, as well as those where control system alarms need to be reported, acknowledged, and recorded at an enterprise level.

### Ease of Use

OptoDataLink has several features that make it easy to use:

- As part of Opto 22's PAC Project Professional™ Software Suite, OptoDataLink is integrated into the SNAP PAC System™. OptoDataLink uses the same control system tags (tagnames) used in your PAC Control™ strategies. This saves time and effort, since you don't have to recreate tagnames for variables, input/output (I/O) points, or other controller values.
- OptoDataLink uses a graphical user interface to set up data connections. You don't need to be a database expert to configure data links with OptoDataLink.
- Once a data link is established, OptoDataLinkRuntime runs in the background as a Windows service. Unless you choose to stop the service, OptoDataLinkRuntime continues to run as long as the computer is running.



- If your system is set up for redundancy, OptoDataLink automatically recognizes when a strategy includes redundant controllers, and includes information about them in the OptoDataLink project. When the project runs, OptoDataLink detects when the active controller changes and switches to scanning the new active controller.

### PAC Project Professional

OptoDataLink is part of Opto 22's **PAC Project Professional** Software Suite, and can also be purchased separately. PAC Project Professional also includes PAC Control™ for control programming, PAC Display™ for HMI development, OptoOPCServer™ for OPC 2.0-compliant clients, PAC Manager™ for configuration, and SoftPAC™, a software-based programmable automation controller for PC-cased control.

### Part Number

| Part         | Description                    |
|--------------|--------------------------------|
| OPTODATALINK | Database Connectivity Software |

## Compatibility with Opto 22 Products

OptoDataLink collects control data from the following Opto 22 processors, controllers, and brains (I/O processors):

- S-series and SNAP PAC R-series programmable automation controllers (PACs), and SoftPAC (Opto 22's PC-based controller).
- EB-series Ethernet brains, with or without a PAC controller.
  - When using an EB-series brain with a PAC controller, your OptoDataLink project uses tags from a PAC Control strategy (.idb) file.
  - When using an EB-series brain without a PAC controller, your OptoDataLink project uses tags from a PAC Manager™ configuration (.otg) file.
- SB-series brains connected to SNAP PAC S-series controllers.
- OptoEMU Sensor. For information on reading data from an OptoEMU Sensor, see the [OptoEMU Sensor Communication Guide](#) (form 1958).

OptoDataLink can also be used with older Opto 22 controllers and brains. For more information on supported hardware and software, see form 1705, *OptoDataLink User's Guide* (included in your download of OptoDataLink or PAC Project Professional).

## OptoOPCServer Software

If OptoDataLink and other applications must communicate with the same Opto 22 controller, Opto 22 recommends that you use **OptoOPCServer** software to optimize controller/application communications. OptoOPCServer must be installed on the same PC as OptoDataLink. OptoOPCServer is included in Opto 22's PAC Professional Software Suite and can also be purchased separately.

## Compatible Databases

- Microsoft® SQL Server® 2014, 2012, 2008, 2005, and 2000
- MySQL® 3.51 and 5.1 (32-bit only)
- Microsoft Access® 2000–2003 and 2007–2016
- Other ODBC-compliant applications (such as Microsoft Excel®, which has a 32-bit ODBC driver)

*NOTE: Microsoft has ended support for SQL Server 2005 (and lower) and for Access 2003 (and lower).*

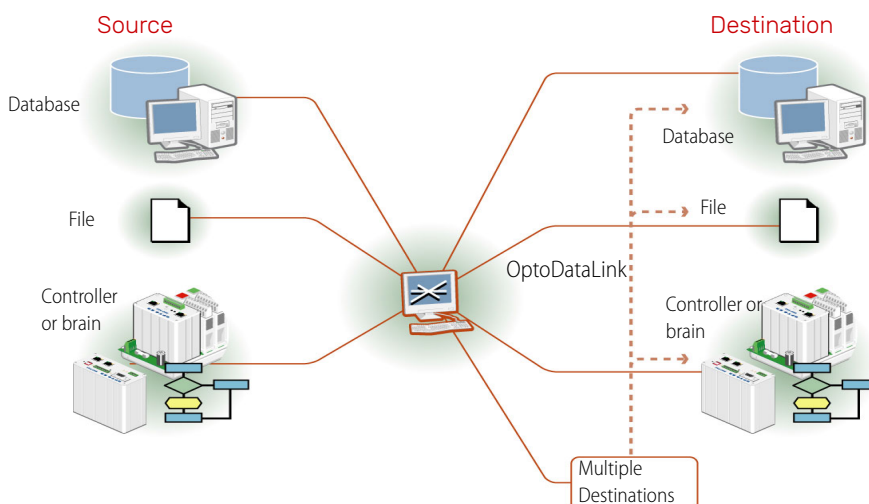
*If you're using applications that Microsoft no longer supports, you should consider upgrading.*

## SYSTEM REQUIREMENTS

- A computer with a standard or mainstream processor and (at least) the minimum memory required for your version of Microsoft Windows. (Low-end CPUs are not recommended.) Additional memory may be required for some configurations.
- One of the following operating systems:
  - Microsoft® Windows® 10 Professional (32-bit or 64-bit)
  - (OptoOPCServer and OptoDataLink only) Windows Server® 2012 R2 and Windows Server 2008 R2

*NOTE: PAC Project cannot be installed on Windows XP or older Windows operating systems. Embedded operating systems are not tested or supported.*

- Ethernet capability
- VGA or higher resolution monitor. Minimum size: 800x600 with small fonts
- Mouse or other pointing device
- (Optional) Installed Windows printer
- Microsoft .NET Framework 3.5 or higher. (.NET 3.5 SP1 is included in PAC Project Professional, or you can download it from the Microsoft website.)



OptoDataLink flexibly and simultaneously connects multiple data sources and destinations.

## PRODUCTS

Opto 22 develops and manufactures reliable, easy-to-use, open standards-based hardware and software products. Industrial automation, process control, building automation, industrial refrigeration, remote monitoring, data acquisition, and industrial internet of things (IIoT) applications worldwide all rely on Opto 22.

### groov EPIC® System

Opto 22's *groov Edge Programmable Industrial Controller (EPIC) system* gives you an industrially hardened system with guaranteed-for-life I/O, a flexible Linux®-based processor with gateway functions, and software for your automation and IIoT applications.

#### groov EPIC I/O

*groov I/O* connects locally to sensors and equipment with up to 24 channels on each I/O module. Modules have a spring-clamp terminal strip, integrated wireway, swing-away cover, and LEDs indicating module health and discrete channel status.

*groov I/O* is hot swappable, UL Hazardous Locations approved, and ATEX compliant.

#### groov EPIC Processor

The heart of the system is the *groov EPIC* processor. It handles a wide range of digital, analog, and serial functions for data collection, remote monitoring, process control, and discrete and hybrid manufacturing.

In addition, the EPIC provides secure data communications among physical assets, control systems, software applications, and online services, both on premises and in the cloud.

Configuring and troubleshooting I/O and networking is easier with the EPIC's integrated high-resolution color touchscreen. Authorized users can manage the system locally on the touchscreen or on a monitor connected via the HDMI or USB ports.

#### groov EPIC Software

Software included in the *groov EPIC* processor:

- PAC Control engine to run PAC Control and PAC Display
- CODESYS Runtime engine to run IEC61131-3 compliant programs built with CODESYS Development System
- Optional access to the Linux operating system through a secure shell (SSH) to download and run custom applications
- *groov View* for building your own device-independent HMI, viewable on the touchscreen, PCs, and mobile devices
- Node-RED for creating simple logic flows from pre-built nodes
- Ignition Edge® from Inductive Automation®, with OPC-UA drivers to Allen-Bradley®, Siemens®, and other control systems, and MQTT communications with Sparkplug for efficient IIoT data transfer

### groov RIO®

*groov RIO* revolutionizes remote I/O by offering a single, compact, PoE-powered industrial package with web-based configuration, commissioning, and flow logic software built in, plus support for multiple OT and IT protocols.

Standing alone, it meets the needs of small, variable I/O count applications, especially those that require data logging or data communications, commonly found in IIoT applications. *groov RIO* can also be used with a Modbus/TCP master or as remote I/O for a *groov EPIC* system.

### Older products

From solid state relays (our first products) to world-famous G4 and SNAP I/O, to SNAP PAC controllers, older Opto 22 products are still supported and still doing the job at thousands of installations worldwide. You can count on us to give you the reliability and service you expect, now and in the future.



## QUALITY

Founded in 1974, Opto 22 has established a worldwide reputation for high-quality products. All are made in the U.S.A. at our manufacturing facility in Temecula, California.

Because we test each product twice before it leaves our factory rather than testing a sample of each batch, we can afford to guarantee most solid-state relays and optically isolated I/O modules for life.

## FREE PRODUCT SUPPORT

Opto 22's California-based Product Support Group offers free, comprehensive technical support for Opto 22 products from engineers with decades of training and experience. Support is available in English and Spanish by phone or email, Monday–Friday, 7 a.m. to 5 p.m. PST.

Support is always available on our website, including [free online training](#) at OptoU, how-to [videos](#), [user's guides](#), the Opto 22 KnowledgeBase, troubleshooting tips, and [OptoForums](#). In addition, instructor-led, hands-on [Premium Factory Training](#) is available at our Temecula, California headquarters, and you can [register online](#).

## PURCHASING OPTO 22 PRODUCTS

Opto 22 products are sold directly and through a worldwide network of distributors, partners, and system integrators. For more information, contact Opto 22 headquarters at **800-321-6786** (toll-free in the U.S. and Canada) or **+1-951-695-3000**, or visit our website at [www.opto22.com](http://www.opto22.com).