

# README: Opto 22 Library Package for CODESYS Development System 2.0.2.0

April 29, 2021. Document update: May 3, 2021.

This Readme provides information about fixes and enhancements to this library package.

Some fixes or enhancements may require that you install a corresponding firmware update, either to *groov* I/O modules, the *groov* EPIC processor, or *groov* RIO modules. If a fix or enhancement falls into this situation, the description of the specific fix or enhancement will include information about the required firmware update.

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For instructions on installing this library package, see either of the following:

- For *groov* EPIC devices see one of the following sections in the [groov EPIC User's Guide \(form 2267\)](#):
  - If you are installing the library package for the first time, see "Adding the OPTO 22 Library Package to CODESYS Development System".
  - If you are updating the library package, see "Updating *groov* EPIC and *groov* I/O Module Information".
- For *groov* RIO modules, see "Configuring I/O Through CODESYS Development System" in the [groov RIO User's Guide \(form 2324\)](#).

For instructions on installing firmware on any of the following products, see the corresponding form:

- GRV-EPIC-PR1: See "Updating Firmware on a *groov* EPIC Unit" in the [groov EPIC User's Guide \(form 2267\)](#).
- *groov* I/O modules: See "Installing an I/O Module Firmware Update" in the [groov EPIC User's Guide \(form 2267\)](#).
- *groov* RIO modules: See "Updating Firmware on a *groov* RIO Unit" in the [groov RIO User's Guide \(form 2324\)](#).

## Questions

If you have questions, see [How to Get Help](#).

Each Bug Fix is identified by its bug tracking number. If a number listed here has KB as the prefix, click the link to see a KnowledgeBase article with more information.

# Library Package for CODESYS Development System 2.0.2.0

April 29, 2021. Document update: May 3, 2021.

## New Features

- Adds support for the 3.5.15.50 CODESYS runtime included in EPIC 3.2.0 firmware.
- Adds support for the CODESYS EtherCAT Master SL

## Enhancements

The number of allowed Ethernet devices has been increased from 2 to 5.

## Bug Fixes

[KB89637](#) - CODESYS: Some I/O channels not updating

[KB89648](#) - When I/O unit reconnects after timeout, digital input latches and counters may be incorrect

[KB89653](#) - CODESYS incorrectly shows support for latches on channels 2-7 of GRV-R7-MM1001-10

[KB89672](#) - Digital input latches and counters may be incorrect when first running an application

[KB89679](#) - Remote I/O may start with a timeout error

[KB89682](#) - Counters missing from digital inputs on channels 0 and 1 of GRV-R7-MM1001-10

## Previous Releases

### Library Package for CODESYS Development System 2.0.1.1

March 11, 2021

**If you are updating this package from version 2.0.0.0:** Whenever you update the Opto 22 Library Package, you need to update the GRV-EPIC-PR1 device in your CODESYS application (see "Updating *groov* EPIC and *groov* I/O Module Information" in the [groov EPIC User's Guide \(form 2267\)](#)). Typically, the device version number changes when you update your device. However, be aware that the device version number will stay the **same** between version 2.0.0.0 and 2.0.1.0 of the library package; that number is 3.5.15.10.

#### Bug Fixes

[KB89593](#) - Changes to Inputs Received Slower Than Configured Streaming Interval

### Library Package for CODESYS Development System 2.0.1.0

February 3, 2021

**If you are updating this package from version 2.0.0.0:** Whenever you update the Opto 22 Library Package, you need to update the GRV-EPIC-PR1 device in your CODESYS application (see "Updating *groov* EPIC and *groov* I/O Module Information" in the [groov EPIC User's Guide \(form 2267\)](#)). Typically, the device version number changes when you update your device. However, be aware that the device version number will stay the **same** between version 2.0.0.0 and 2.0.1.0 of the library package; that number is 3.5.15.10.

#### New Features

You can now configure the quadrature feature of the GRV-IDCIFQ-12 module.

You can now add a CANbus fieldbus to your GRV-EPIC-PR1 device so that you can configure a GRV-CCANI-2 module with CANopen Manager and J1939 Manager.

You can now configure the thermistor feature (including custom curves) of the GRV-R7-MM1001-10 *groov* RIO module.

For information about these new features, see the [groov EPIC User's Guide \(form 2267\)](#) or the [groov RIO User's Guide \(form 2324\)](#).

#### Bug Fixes

[KB89451](#) - GRV-IDCIFQ-12 on Remote EPIC May Not Retain Counter Feature After Restart

[KB89456](#) - Digital Input Counters and Latches May Be Incorrect After Remote I/O Device Restart

[KB89461](#) - Cannot Clear Latches on RIO Digital Input Channels

### Library Package for CODESYS Development System 2.0.0.1

July 15, 2020

**If you are updating this package from version 2.0.0.0:** Whenever you update the Opto 22 Library Package, you need to update the GRV-EPIC-PR1 device in your CODESYS application (see "Updating *groov* EPIC and *groov* I/O Module Information" in the

[groov EPIC User's Guide, form 2267](#)). Typically, the device version number changes when you update your device. However, be aware that the device version number will stay the **same** between version 2.0.0.0 and 2.0.0.1 of the library package; that number is 3.5.15.10.

#### Bug Fix

[KB89094](#) - Can't Add Supported Versions of BACNet Server to CODESYS Application

### **Library Package for CODESYS Development System 2.0.0.0**

June 10, 2020.

Applies to:

- groov EPIC processor (firmware 2.0.0)
- groov RIO modules (firmware 2.0.0)

#### Enhancement

This release adds support for GRV-R7-MM1001-10, the first product in the groov RIO family.

#### Important Change to GRV-EPIC-PR1 and groov I/O Module Device Information

This release includes changes to the device information for GRV-EPIC-PR1 and groov I/O modules. If you install this version of the Opto 22 Library Package, all groov EPIC processors and I/O modules in existing CODESYS projects must be updated to 2.0.0.0. For details, see [KB88719](#).

### **Library Package for CODESYS Development System 1.0.3.0**

January 10, 2020.

#### Enhancement

This release adds support for future groov products.

### **Library Package for CODESYS Development System 1.0.2.0**

October 15, 2019. Updated: December 9, 2019.

Requires: groov EPIC processor with firmware 1.4.2 or newer

#### Enhancement

This release adds support for the following groov I/O modules:

- GRV-IVI-12
- GRV-IRTD-8
- GRV-IDCSW-12
- GRV-ITM-12

### **Library Package for CODESYS Development System 1.0.1.0**

July 2, 2019

#### Bug Fix

[KB88302](#) - CODESYS: Can't configure Steinhart-Hart Coefficients for "Thermistor: Custom Curve" channel type

## **Library Package for CODESYS Development System 1.0.0.1**

May 21, 2019. Updated: July 15, 2019.

Requires: *groov* EPIC processor with firmware 1.3.2 or newer

### Enhancement

This release adds support for BACnet SL, version 1.2.1.0.

## **Library Package for CODESYS Development System 1.0.0.0**

February 13, 2019. Updated: July 2, 2019

Requires: *groov* EPIC processor with firmware 1.3.0 or newer

Initial Release

## **How to Get Help**

If you have any questions about *groov* EPIC, you can call, or e-mail Opto 22 Product Support. Hours are Monday through Friday, 7 a.m. to 5 p.m. Pacific Time.

Phone: 800-TEK-OPTO (800-835-6786) or 951-695-3080

Fax: 951-695-3017

Email: [support@opto22.com](mailto:support@opto22.com)

Opto 22 website: [www.opto22.com](http://www.opto22.com)

When calling for technical support, be prepared to provide the following information about your system to the Product Support engineer:

- Version information:
  - for the *groov* EPIC processor (by logging on to *groov* Manage, then from the Home page, click Info and Help > About)
  - for the Opto 22 Library Package for CODESYS Development System
- A description of your system equipment, including computer CPU type, speed, memory, and operating system
- Specific error messages or other diagnostic indications