

KINGSTAR 4.5.5 Multiple Master

README

KS-DOC-x64-0048-R3

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Overview

This product update adds support for KINGSTAR 4.5.5 Multiple Master, enabling control of multiple EtherCAT master instances within a single application. This guide is recommended for users who already have KINGSTAR 4.5.1 Multiple Master installed on their system.

Key Features

Multiple EtherCAT Master Support: Manage multiple EtherCAT master instances from one application.

Notes

Synchronization between instances is possible but has limitations. Contact IntervalZero support for details.

Version Compatibility

This product update is compatible with **KINGSTAR 4.5.5 SDK** and **KINGSTAR 4.5.5 Runtime** only.

Using Multiple EtherCAT Master Instances

Description

This ZIP provides an extended version of the `KsApi` `KsMotion` interfaces that allow a single application to use multiple EtherCAT master instances simultaneously.

Installation

Runtime

Copy the following files to the `KINGSTAR bin` folder

- `KsApiEx.dll`
- `KsApiEx_Rtss.rtdll`

SDK

Copy the following files to the `KINGSTAR lib\amd64` folder:

- `KsApiEx.lib`
- `KsApiEx_Rtss.lib`

Copy the following header files to the `KINGSTAR include` folder:

- `KsApiEx.h`
- `KsMotionEx.h`

Usage

1. Include the `KsApiEx.h` and `KsMotionEx.h` files in place of `KsApi.h` and `KsMotion.h` in your application.
2. The APIs remain the same but are now packaged within the `IApi` and `IMotion` classes.
3. The `Create` function is replaced with the `CreateApi` function, which returns a pointer to the `IApi` class.
4. The `IMotion` class is obtained with the new `CreateMotion` function. This function takes an `IApi` class instance as input to specify which EtherCAT master instance to access.

IMPORTANT: Multiple instances may interfere with each other and should each run on their own core. While synchronization between instances is possible, it comes with certain restrictions. Please contact IntervalZero support for more information before using multiple instances.

Get support

KINGSTAR offers a number of support options for KINGSTAR users, including third-party, online, and phone support.

Third-party support

If you are a customer who purchased a KINGSTAR product through a third-party reseller, contact the reseller for support.

Online support

The KINGSTAR Customer Support web page is located at:

<http://kingstar.com/support/>

The KINGSTAR support web pages provide electronic access to the latest product releases, documentation, and release notes. You can access the online support ticketing system to submit issues or questions.

Before calling technical support

Please have the following information ready before calling KINGSTAR Technical Support:

The version number of your RTX64 and KINGSTAR software

To obtain the RTX64 version number:

1. Click Start  > **RTX64 4.5 Runtime** > **RTX64 Control Panel**.
2. In the **RTX64 4.5 Control Panel**, record the **Version** shown in the **Installed Runtime components** area.

To obtain the KINGSTAR version number:

1. Click Start  > **KINGSTAR 4.5 Runtime** > **KINGSTAR Control Panel**. Or, in the notification area, double-click the KINGSTAR icon.
2. In KINGSTAR Control Panel, click **About**.
3. Record the **Version** shown on the page.

Phone support

For technical support related to installing and using KINGSTAR, please call technical support at this number:

+886-2-2556-8117

Hours are Monday – Friday from 9:30 to 17:30, UTC+08:00, excluding holidays.