

EtherCAT Quick Start Guide

KEYENCE



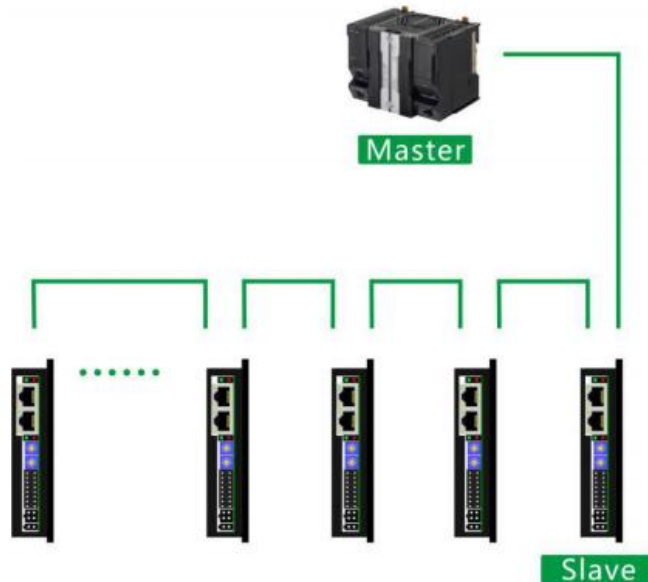
EtherCAT®

Shenzhen Rtelligent Mechanical Electrical Technology Co., Ltd

1. Hardware

The hardware used in this routine is:

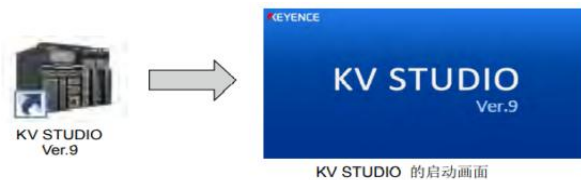
KEYENCE Series PLC + Rteligent EtheCAT Bus stepper driver



2. Software

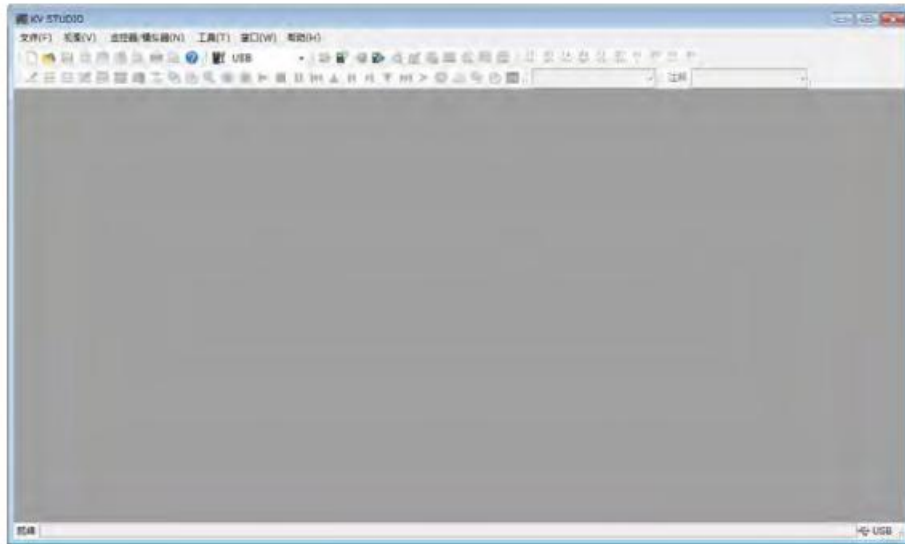
Operating system: win 7 and above

Software version: KEYENCE programming software (please download it from the official website)



3. Create new project

After opening the programming software to display the splash screen, click **New Project**.



Add "KV-XH16EC" to the list of "Select unit (1)".

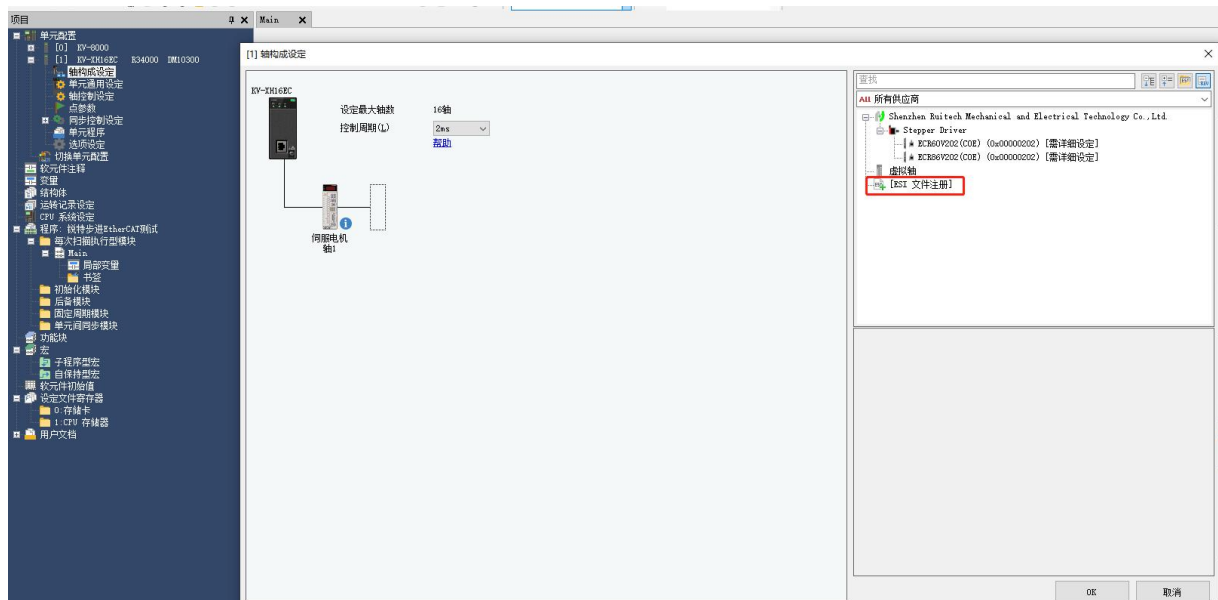


4. Add description file

No matter what control mode the new project uses, the description file (XML file) is essential. If you need a description file, please download it from the official website or consult our technical engineer.

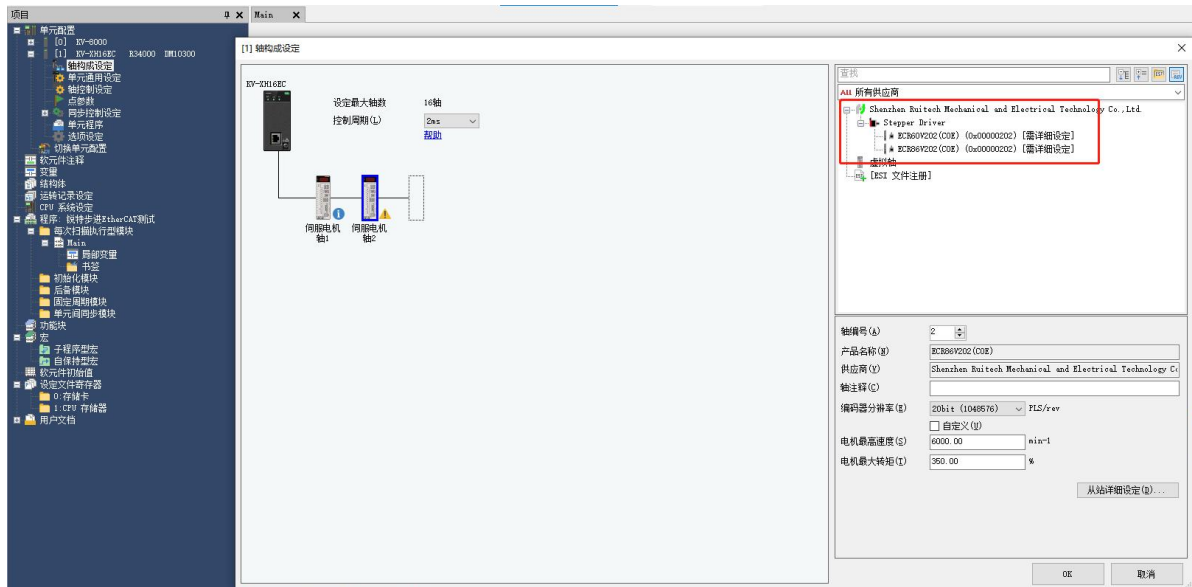
Please put the description file (XML file) in the following folder: (please note that the disk on which the software is installed may be different)

Or load the ESI file directly.



5. Add motion axis

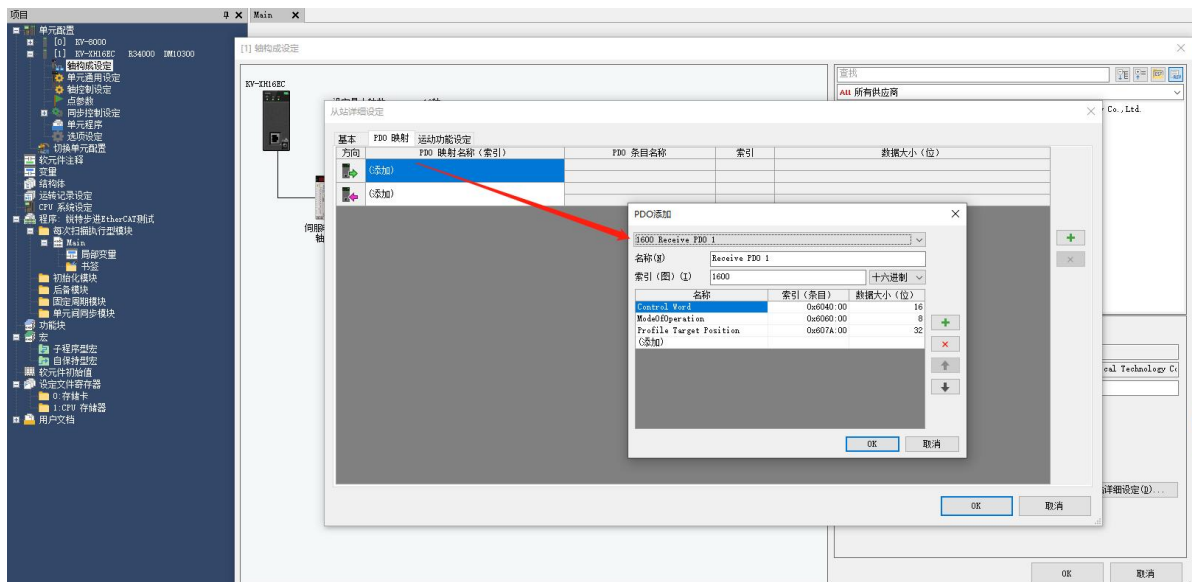
In the list of all suppliers on the right side of the PLC software, you can find the corresponding model of Rteelligent's driver, which can be directly dragged into the axis configuration setting with the mouse.



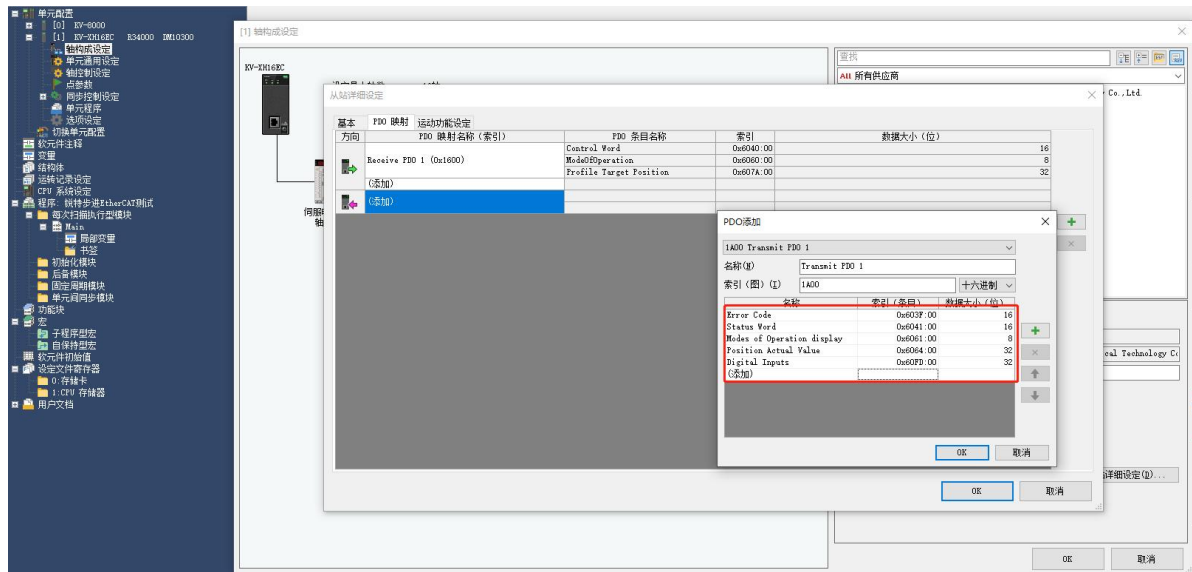
6. Motion axis PDO parameter setting

Set the relevant parameters of the motion axis PDO in the detailed settings of the slave station:

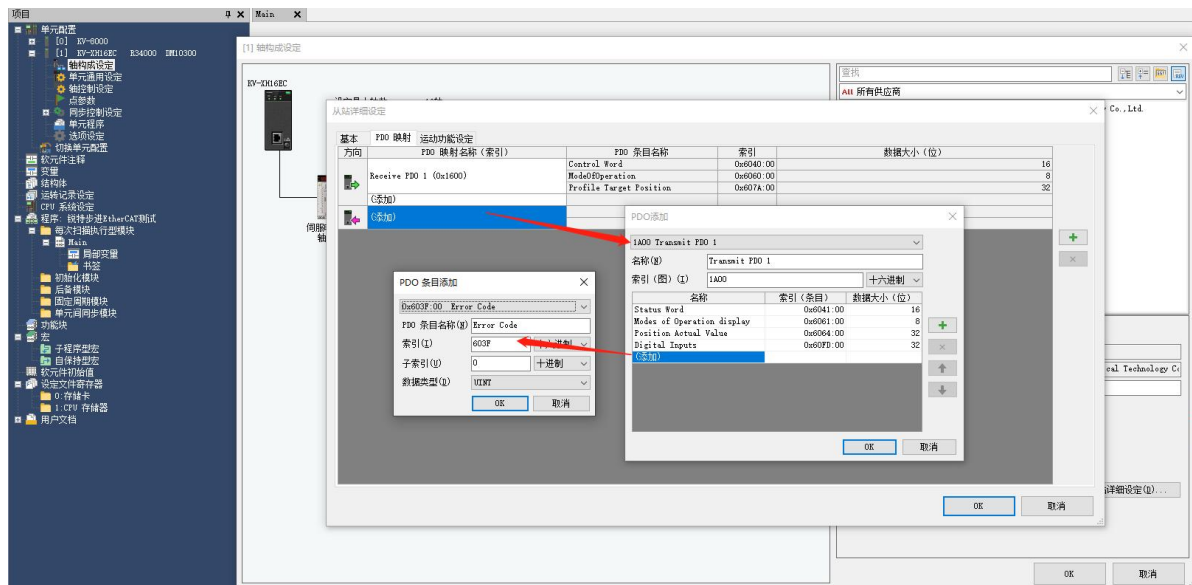
6.1 Add 1600 Receive PDO 1 to the output PDO mapping name (index)



6.2 Add 1A00 Transmit PDO 1 to the input PDO mapping name (index)



6.3 Add the driver alarm code 0x603F.



7. Axis motion function setting

Add the following parameters to the motion function settings in the detailed settings of the slave station:

Note: 0x60FD positive and negative limit settings

9. Motion test

