QUICK TIMER R16X

V2.5

Software Tutorial

Ginkgo LLC

Serial Port & Network Communication Software

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1. Introduction

Quick Timer R16X is one of our Quick Timer series software, which is to control relay boards of **National Control Devices**, **Robot Electronics**, and **Velleman**.

Quick Timer R16X is special to control 16-channel relay boards. Programmable time setting and high resolution make it quite fit for lights control, science experiment control, home automation control, industry control, energy conservation control, and so on.

We also have **Quick Timer R2X**, **Quick Timer R4X**, **Quick Timer R8X** and **Quick Timer**. They all have same features, except for different number of relay channel.

➢ **Interface**

Quick Timer R16X interface includes *Title Bar, Control Panels, Rapid Buttons, and Status Bar.*

➢ **Features**

- Control 16- channel relay boards through Serial Port/USB or Network

- Control relays manually with separate control panel

- Control relays automatically according to programmable time setting

- Detect and display relay connection status automatically

- Update and display the current status of relay simultaneously

- Support timer setting with counting down and counting up

- Control both relay channels with Rapid Buttons directly

- Save timer setting for later loading

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2. Installation

> ➢ **System Requirement**

Quick Timer R16X works well on Windows 7, Windows 8, and Windows 10.
Please be sure you have your Windows system updated.

> ➢ **Download**

Click *Download* link on Quick Timer R16X web page, or click the link below
http://www.serialporttool.com/download/QuickTimer/QuickTimerR16X.zip
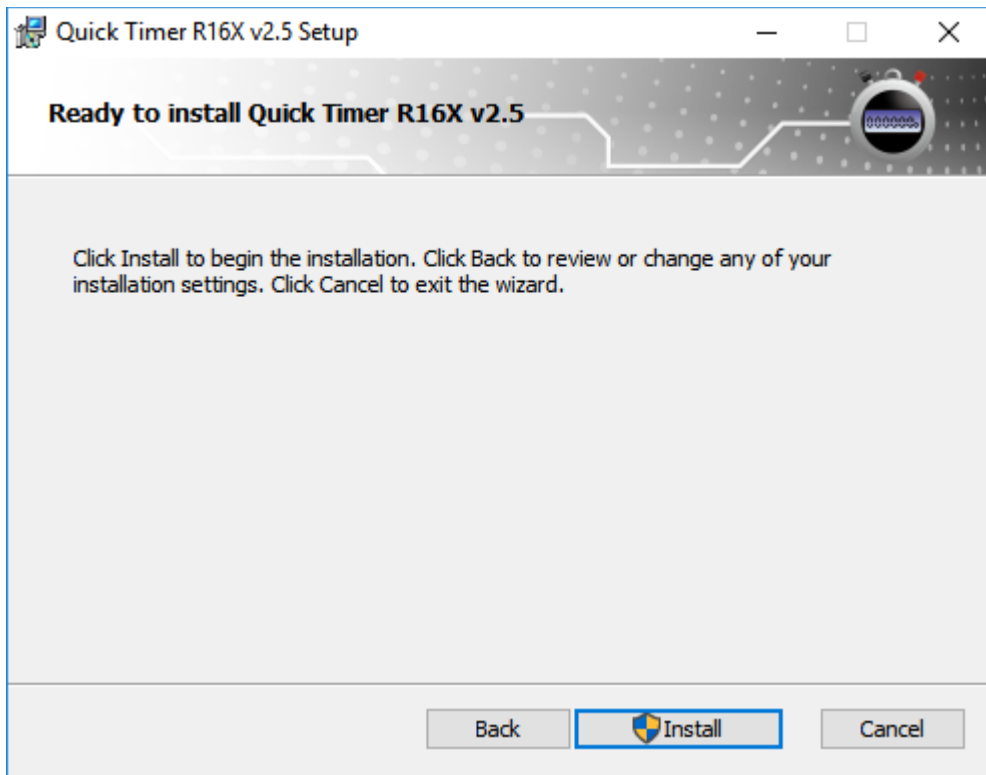to save *QuickTimerR16X.zip* file on your computer.

> ➢ **Install**

Unzip *QuickTimerR16X.zip* file to get *QuickTimerR16X.msi* file.
Double-click *QuickTimerR16X.msi* file to run Setup Wizard.
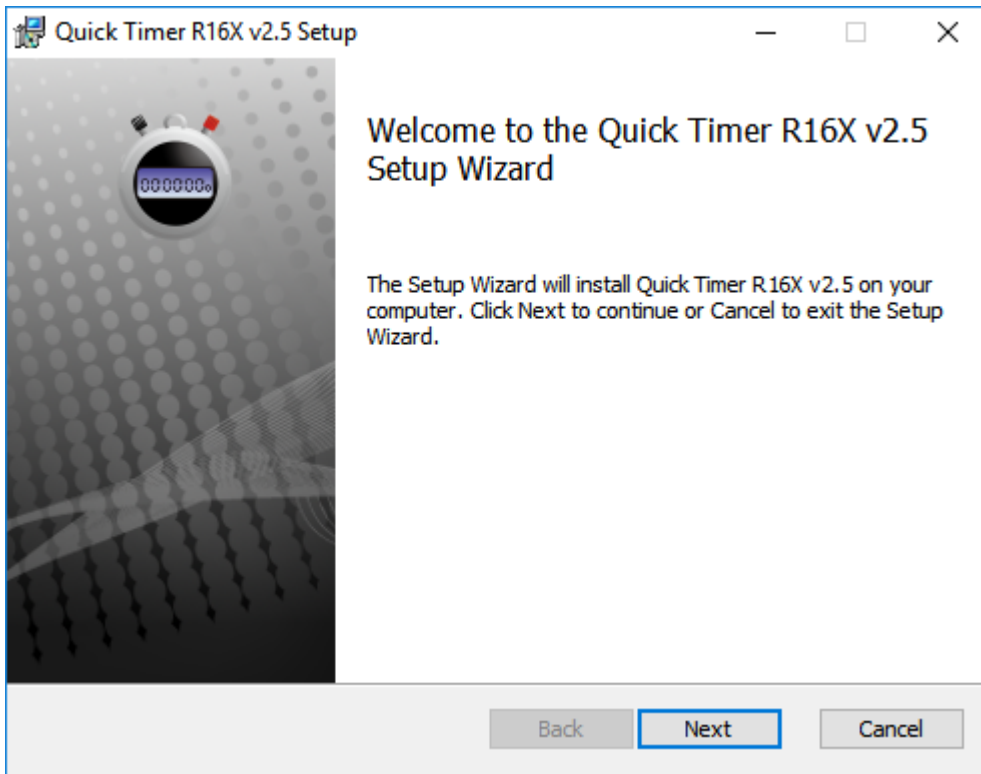
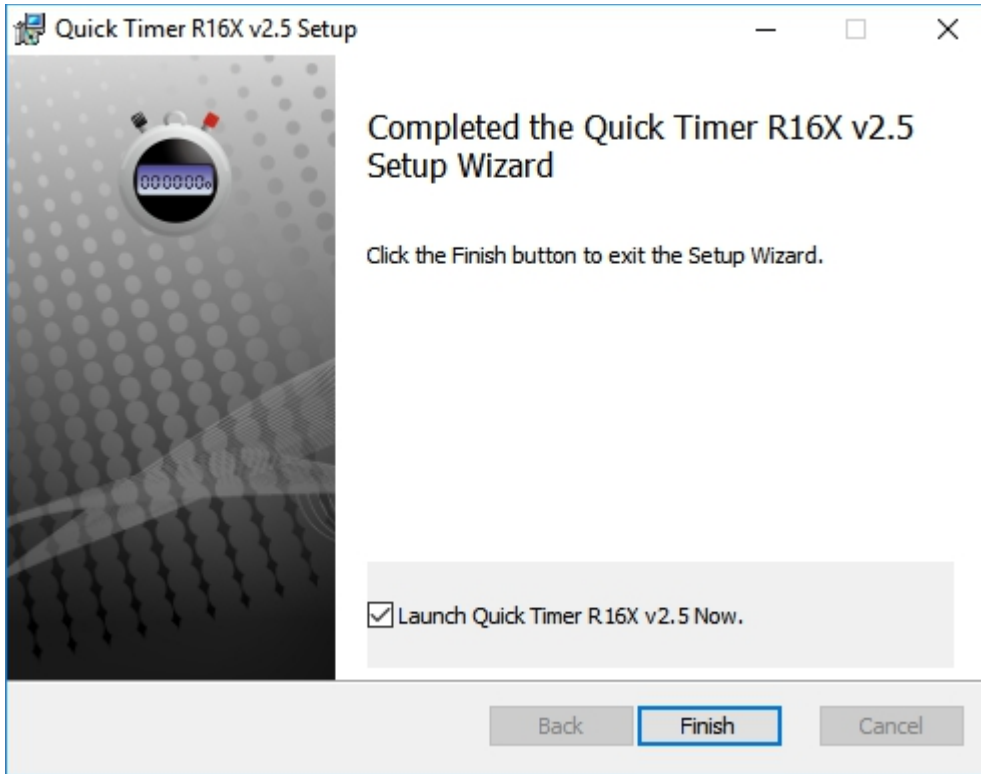Follow the instruction of Setup Wizard, click *Next* button to step into next panel.
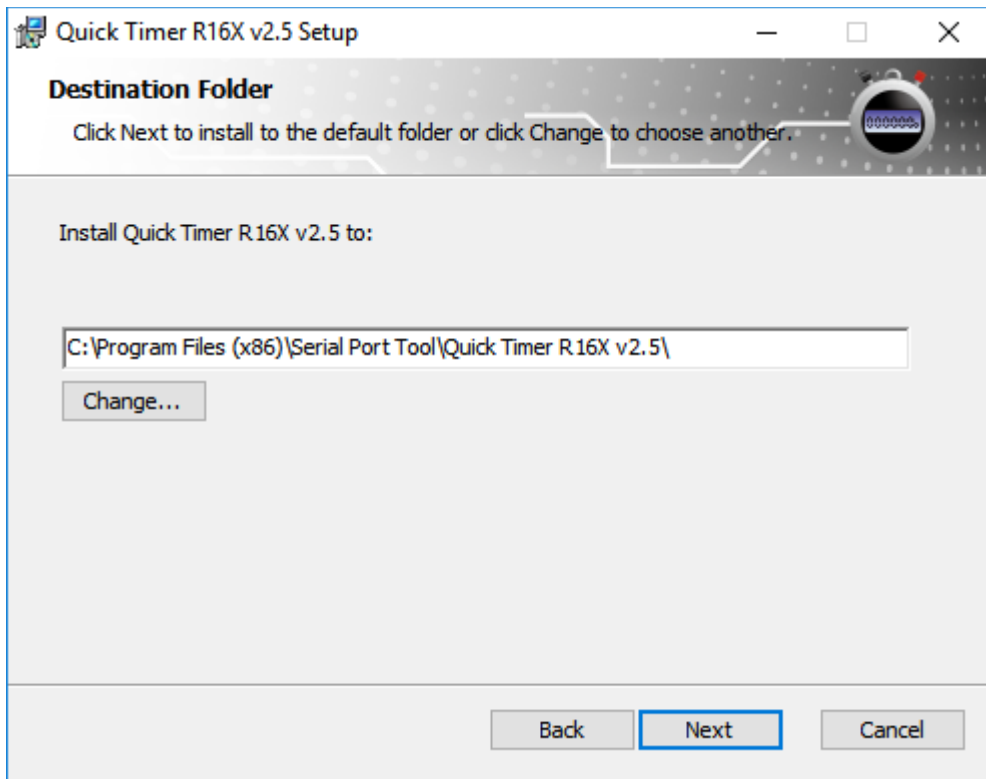
Select *Destination Folder* or keep default folder, and click *Next* button to step into next panel.

Click *Install* button, Quick Timer R16X will be installed automatically.
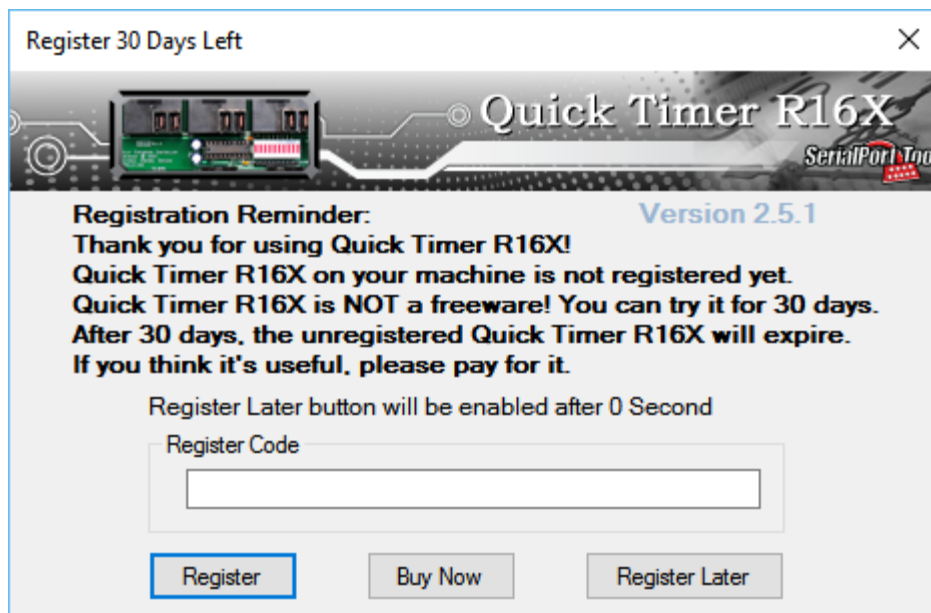
The final panel will be shown like below.

Keep *Launch Quick Timer R16X Now* option checked.

Click *Finish* button to exit the Setup wizard and run Quick timer R16X at the same time.

3. Registration

After you install and run Quick Timer R16X, you will see the registration reminder panel first.
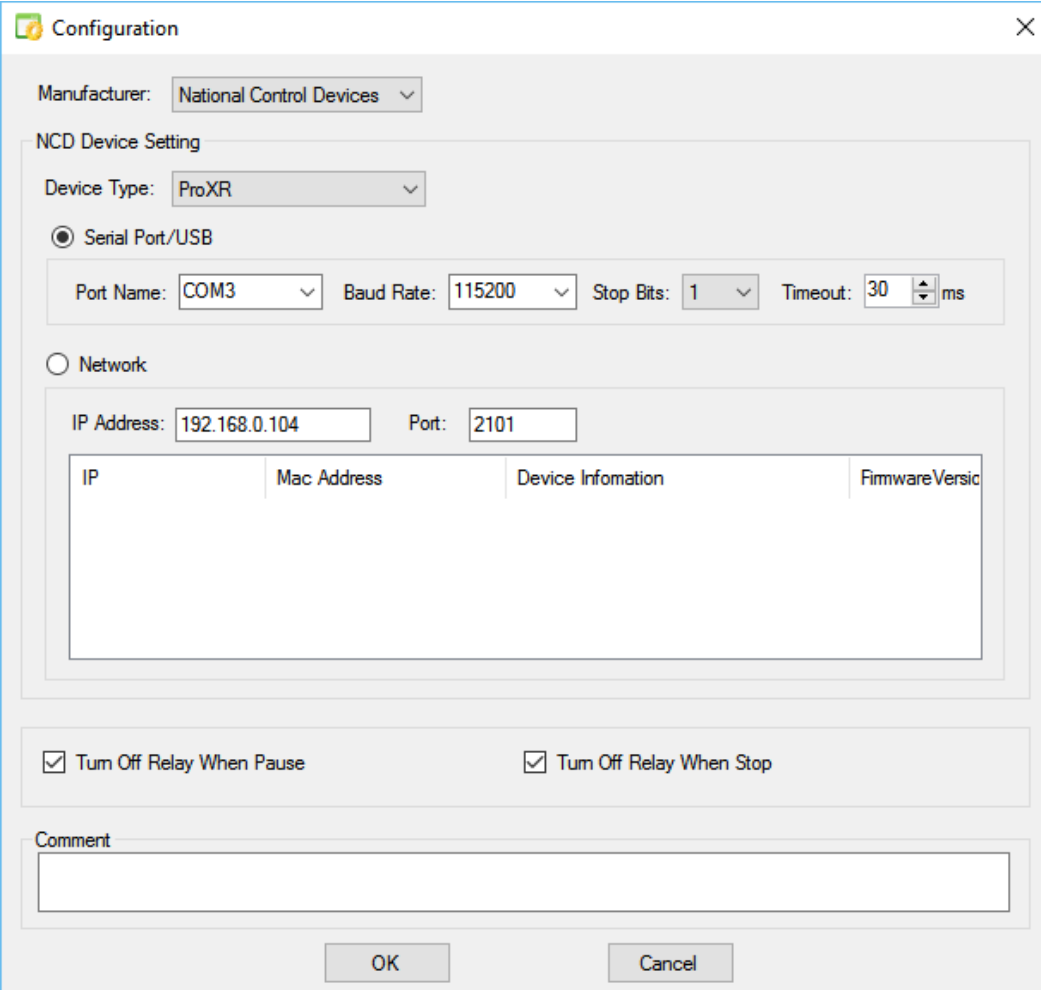
You have 30 days to try all features of Quick Timer R16X after install. This panel will let you know how many days left for your free trial. It will be shown every time when you run Quick Timer R16X until you have it registered.

After you pay for and get your registration code, input the code on this panel, click *Register* Button. The code will be verified and registered online automatically. You will see a message box after registration successful. This registration reminder panel will not be shown any more.

4. How to Connect with Relay Board

To control relay board with Quick Timer R16X, you need connect the relay board to your computer through serial port/USB or by network interface. Then, run Quick Timer R16X to set up the connection between relay board and Quick Timer R16X.

Click **Configure** button to show the *Configuration* panel.

Select *Manufacturer*, *Device Type, and* connection interface *Serial Port/USB* or *Network* for the connected relay board.

➢ **Manufacturer**
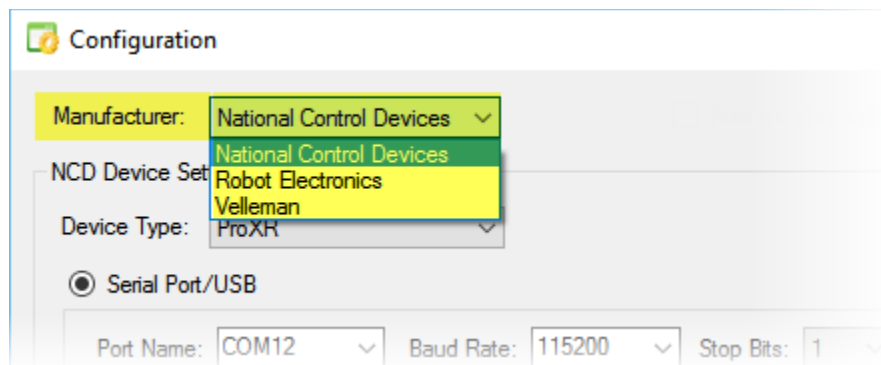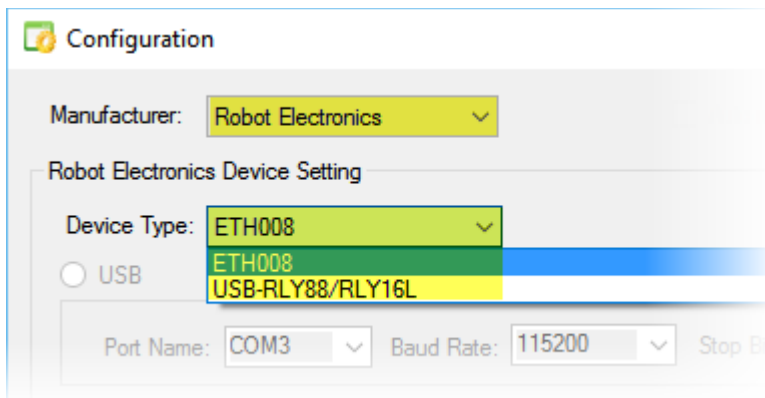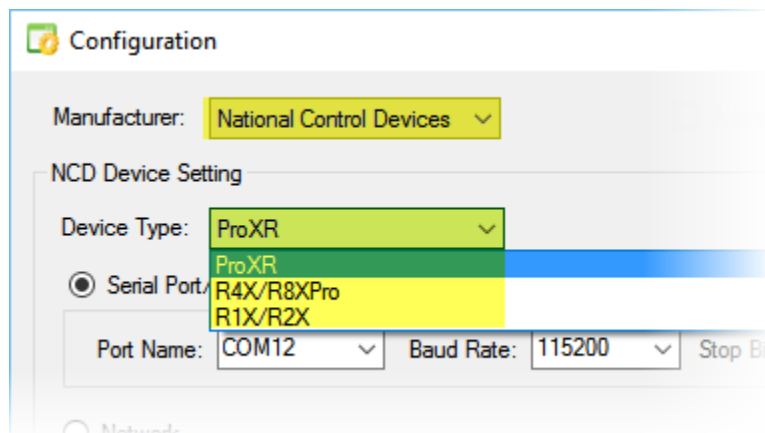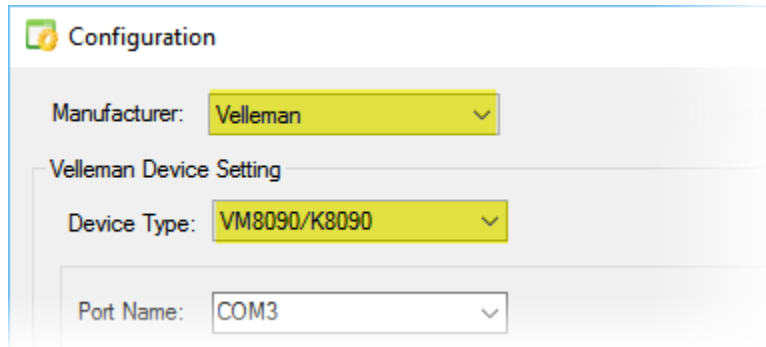

Quick Timer R16X supports relay boards of **National Control Devices**, **Robot Electronics**, and **Velleman** only for now.
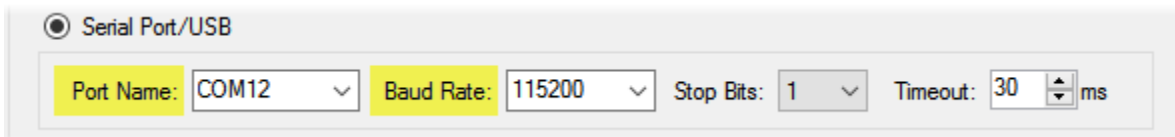
➢ **Device Type**

There are different device types for each manufacturer. Select the right one for your relay board.

> ➢ **Serial Port/USB Connection**

Select the option *Serial Port/USB*, if the relay board is connected to your computer with Serial Port/USB interface.

Select *Port Name* and *Baud Rate*. Keep default value for *Stop Bits* and *Timeout*.

Port Name: It is the name of Serial Port or USB interface that Quick Timer R16X will communicate with. All existed and available COM Port will be detected and list here. Select the corresponding COM Port for your relay board.

Baud Rate: It is the data transmission speed. Select the right Baud Rate to make the relay board work correctly. 9600 and 115200 are most used for relay board.

> ➢ **Network Connection**

Select the option *Network*, if your relay board is connected to network same as your computer.
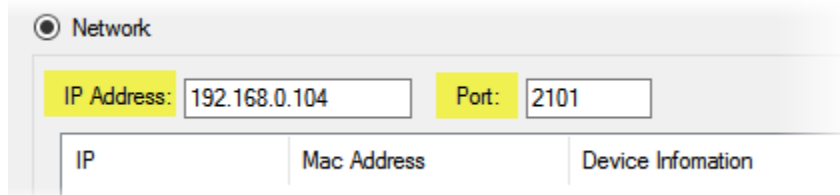
IP Address and *Port* number need to be input here.

IP Address: It is the internet address of the relay board.

Be sure the relay board is set up in the same network with your computer. Normally, the connected network device information and IP Address will be list automatically. If not, you need log in your router to get the IP Address of the relay board.

Port: It is the communicate port number.

The default value is 2101 for Control Devices' board, and 17494 for Robot Electronics' board.

After you select all above settings for the relay board, click *OK* button to finish configuration.

You will see the information of connection type and status on *Status Bar*.

If the selected connection type is not available, "Error" will be shown.

The flash arrow indicates Quick Timer R16X is detecting the connection status between the computer and the relay board.

If the connection is broken, the character " Connection Error" will be displayed on *Status Bar*.

5. How to Control Relay Manually

Once you set up the connection, you can control the relay board manually by mouse click now.

➢ Single Relay

Click the switch button on *Control Panel* for each relay channel to turn on/off single relay.

➢ Both Relays

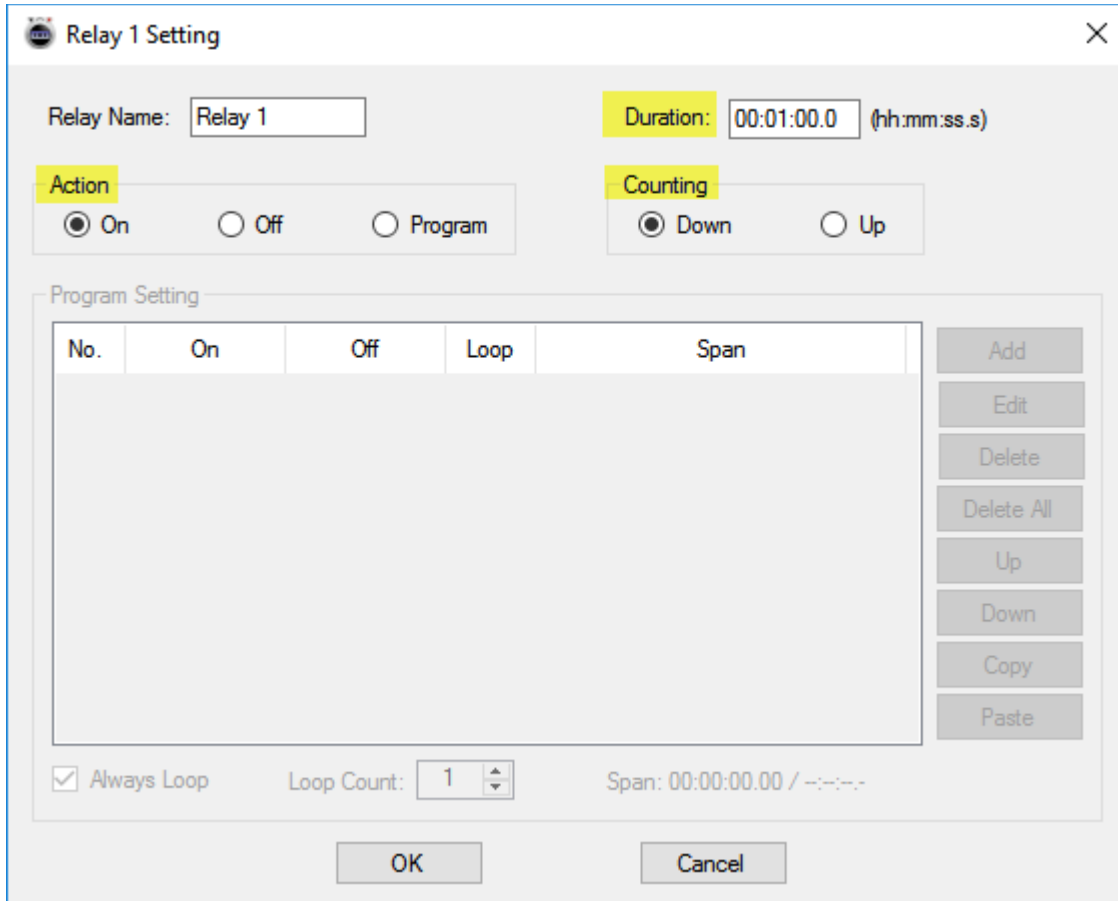Click **Turn All On** button to turn both relays on at the same time.

Click **Turn All Off** button to turn both relays off at the same time.

6. How to Control Relay Automatically

Each relay channel must be set before it steps into auto control mode.

➢ Setting

Click ⚙ button on *Control Panel* to open *Relay Setting* panel.

Input *Duration*, select *Action* and *Counting* mode.

Duration: It is the total time for the relay keeping in auto mode.

*Action:* It is the relay status during auto mode.

- On --- Relay will always be turned on during auto mode.
- Off --- Relay will always be turned off during auto mode.
- Program --- Relay will be turned on/off according to program setting.

Counting: It is the style of counting time shown on relay control panel.

- Down --- Time will be counted from maximum value to zero.
- Up --- Time will be counted from zero to maximum value.

If *Action -->Program* is selected. *Program setting* will be available.

Click *Add* button to open *Item Setting* panel.
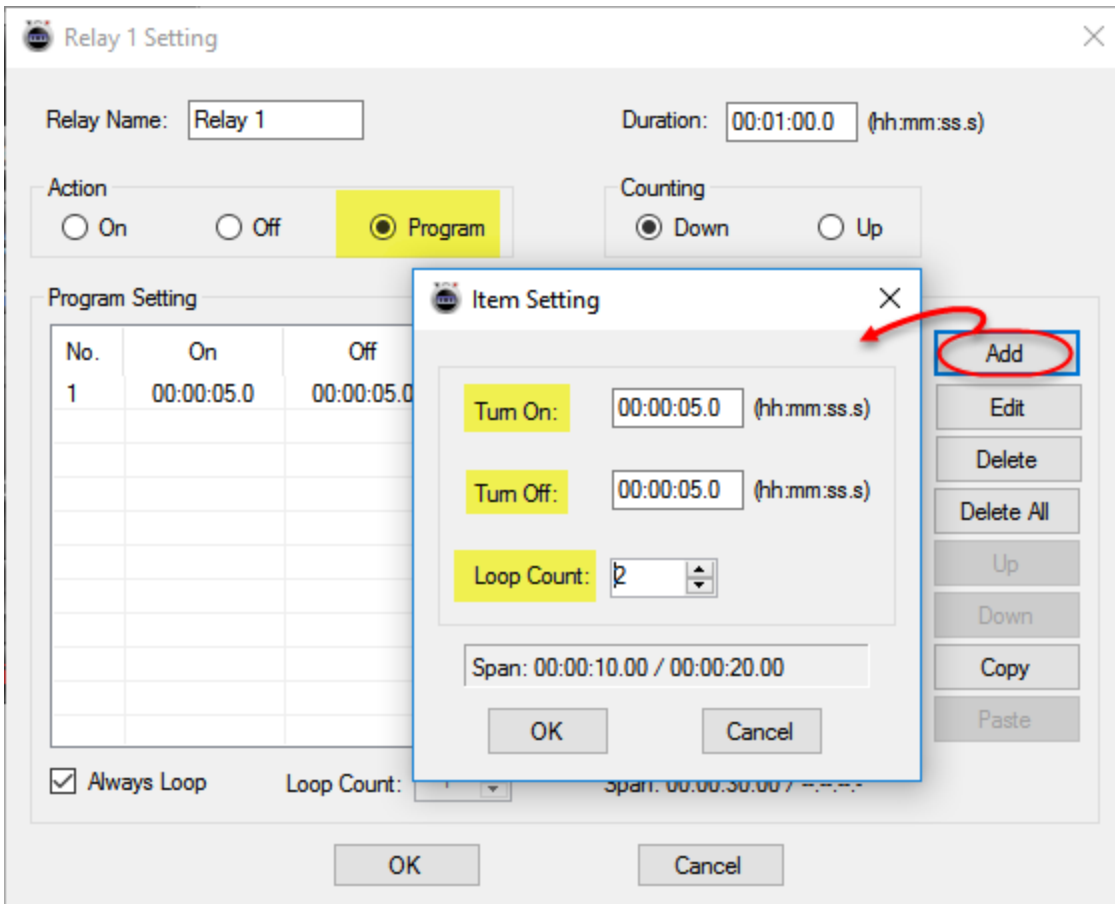
Input time for *Turn On* and *Turn Off,* select *Loop Count*.

Click *OK* to return *Relay Setting* panel.

Different items can be added here to make all kinds of complicated timer setting here.

 Click *OK* button to finish relay setting for auto mode.

 After the setting, single relay or both relays can be controlled automatically.

➢ **Single Relay**

Click ▶ button on *Control Panel* to let this relay channel step into auto mode. The relay's status will change according to above setting automatically.

Click ❙❙ button to pause auto mode.

Click ■ button to stop auto mode.

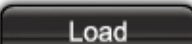Click ↺ button down to repeat measuring time automatically.

➢ **Both Relays**

Click [Start All] button to allow both relay channels to step into auto mode.

Click [Pause All] button to pause auto mode for both relays.

Click [Stop All] button to stop auto mode for both relays .

7. How to Save and Load Setting

Click [Save] button to save timer settings for all relays to a *.tmr file.

Click [Load] button to load a *.tmr file to get timer settings for all relays directly.

8. Getting Help

We would like to support more kinds of relay board to work with Quick Timer R16X. Please contact us if you have any suggestion or question about Quick Timer R16X.

E-mail: support@serialporttool.com

We also have Relay Timer R16X software to control 16-channel relay boards by schedule setting.

Please visit our Website, Blog or YouTube channel to get more information.