



# EVC8004

## USB<math>\leftrightarrow</math>485/422

### Isolation Converter

#### 1. Product Information

EVC8004 is a high-performance and high cost-effective USB <math>\leftrightarrow</math>485/422 isolation converter launched by Gingko Inc. Which has many virtues, such as small in size, high performance, ease of use and so on. The product can not only apply to site electrical installations and exploitation, but also work in complicated industrial control environment for a long time.

#### 2. Technical Indicators

Baud rate	300~921600bps
Upstream	Compatible with USB1.1, 2.0, 3.0
Downstream	RS-485, RS-422
Isolation scheme	ADI magnetically coupled isolator
Isolation voltage	1500Vrms
Communication performance	1200m, RS-485/RS-422 can be mounted up to 32 nodes mostly
Output protection	TVS protection and filter network
Supply voltage	4.75~5.25V, powered by USB
Operating system	All series of Windows
Operating temperature	-40℃~85℃(technical grade)
Net weight	About 30g
Dimensions	60*40*20mm(LxWxH)

Official store : <http://iCore.taobao.com>  
 Technology BBS: <http://www.eeschool.org>  
 E-mail : [gingko@vip.163.com](mailto:gingko@vip.163.com)  
 Contact us : 0379-69926786 69926675

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#### 3. Features



- ① Micro USB port:  
Communicate with the computer and power the device through the USB cable.
- ② RS-485/422 multiplex interface:
  - RS-485:  
T-/B: RS-485B signal, B to B  
T+/A: RS-485A signal, A to A  
R-/R+ suspended.  
GND signal also can connect up for improving the capability of anti-interference, as shown in Figure 1.
  - RS-422:  
T-/B: 422 send negative signal, T- to R-  
T+/A: 422 send positive signal, T+ to R+  
R-: 422 receive negative signal, R- to T-  
R+: 422 receive positive signal, R+ to T+  
GND signal also can connect up for improving the capability of anti-interference, as shown in Figure 2.
- ③ Three-color LED for indication:  
green: power indication  
red: transmission indication  
blue: reception indication

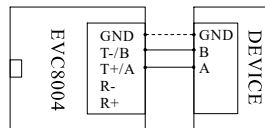


Figure 1 RS-485 connection

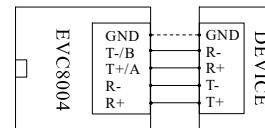


Figure 2 RS-422 connection

#### 4. Driver Installations

- ① Get the drivers  
Download the driver through the link below or connect with the customer service to get the driver file.

<http://wch.cn/download/65>

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- ② Connect the interface converter

Connect the isolation converter with the computer USB interface by the USB line. Then the device manager of your computer will show you a question-mark device, as shown in Figure 3.



Figure 3 Question-mark device

- ③ Install the device driver  
Double click the "CH341SER.EXE" to open the driver and there will be an interface as shown below, and then click install to complete installation.

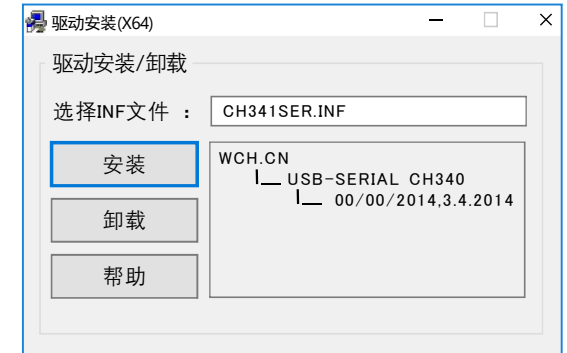


Figure 4 Driver installation interface

- ④ Get the port number

When you finish the installation, connect the device and find the port number in the port classification of the device manager, as shown in Figure 5.



Figure 5 Port number

#### 5. Inventory

- ① EVC8004 interface converter



- ② EDG3. 81-5P connection terminal

- ③ Micro USB cable



- ④ Instruction

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