



# EVC8013B

## Three in One Coupled Magnetic Isolation Converter



### 1. Product Information

EVC8013B three in one coupled magnetic isolation converter (USB to RS-232/RS-485/RS-422) has changed the way of RS-232 output interface into DB9 from EVC8013. In addition, the product isolation voltage is high up to 2500Vrms by adopting iCoupler coupled magnetic isolation technology of ADI Inc. So the product is safe and reliable, and it has good performance.

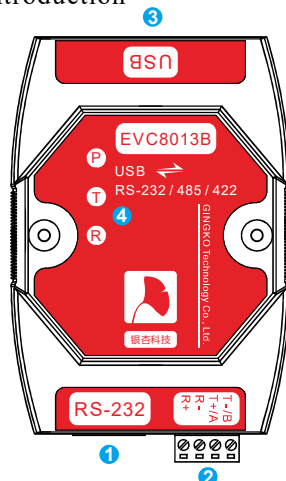
### 2. Technical Indicators

Baud rate	300~460800bps
Isolation scheme	ADI magnetically coupled isolator
Output interface	RS-232 (DB9 Standard plugs), RS-485 and RS-422
Isolation voltage	2500Vrms
Interface scheme	FT232RL chip, RS-232, RS-485 interface chip
Load performance	RS-485/RS-422 can be mounted up to 256 nodes (if the load support)
Output-protection	Lightning protection, TVS protection and filter network
Supply voltage	4.75~5.25V, about 100mA
Operating indication	Power indication Transmission indication Reception indication
Operating system	Windows / Linux / Mac
Operating temperature	-40℃~85℃ (technical grade)
Installation mode	Adam module, rail mounting
Warranty policy	One year warranty and life-long maintenance with cost
Dimensions(LxWxH)	103*74*26mm

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1

### 3. Function Introduction



- RS-232 interface(DB9 plug):  
 Pin 2: RXD, RXD to TXD  
 Pin 3: TXD, TXD to RXD  
 Pin 5: GND, GND to GND
- 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
  - 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+
- USB\_B port:  
 Communicate with the computer and power the device through the USB cable.
- LED Indication:  
 P: power indication  
 T: transmission indication  
 R: reception indication

### 4. Driver Installations

#### ① Get the driver

Check the appropriate folder according to the product model in the disk, find the driver folder, then install the appropriate system driver file. We take Windows OS as an example to explain how to install the driver, select the driver file as shown in Figure 1.

● CDM21224\_Setup

Figure 1 Driver file

2

#### ② Install the device driver

- Double click the driver file, then there will be a interface as shown in Figure 2, and click“Extract” to proceed to next step.



Figure 2 FTDI CDM Drivers interface

- Click NEXT on the following interface to get the interface as shown in Figure 3.



Figure 3 License agreement interface

- Select ACCEPT and click NEXT to complete installation.

#### ③ 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 4.



Figure 4 Port number

### 5. Inventory

- EVC8013B interface converter
- Rail clips and screws
- Hi-Q USB cable
- Driver disk
- Instruction



3