

EVC9101C



Data	Version	Description
2025/11/15	V10	

1 Introduction

1.1 Overview

The EVC9101C adopts the latest isolation solution to achieve bidirectional isolation for the USB interface, with an isolation voltage of up to 3000V. Compared to traditional optocoupler isolation solutions, it offers numerous advantages, including superior performance, high reliability, strong anti-interference capability, low power consumption, and long service life.

This product supports two power supply methods: USB interface power supply and external power supply. When no external power is connected, it is powered by the USB interface. When an external power source is connected, the internal switch automatically switches to external power supply.

1.2 Features

- Provides electrical isolation for USB devices
- Suitable for one-to-one connection of USB interface devices
- Supports USB high-speed, full-speed, and low-speed devices
- Internal PCB slot isolation, 3000V isolation voltage
- TVS protection (uplink and downlink)
- Driver-free use
- Works with USB hubs and extenders
- No additional transmission delays
- Maximum output current of output port 200mA
- Input port: USB type B square port, output port: USB type A port
- Switch level short circuit protection
- Both input and output ports include ESD protection (15kV IEC air gap discharge)
- Support Windows, Linux, MAC, Android, Windows CE operating systems
- Operating temperature: -40°C - 85°C
- Installation method: standard Adam module, rail mounting, stackable
- Mechanical dimensions: 103×70×26 mm (L*W*H)
- Environmentally friendly and lead-free

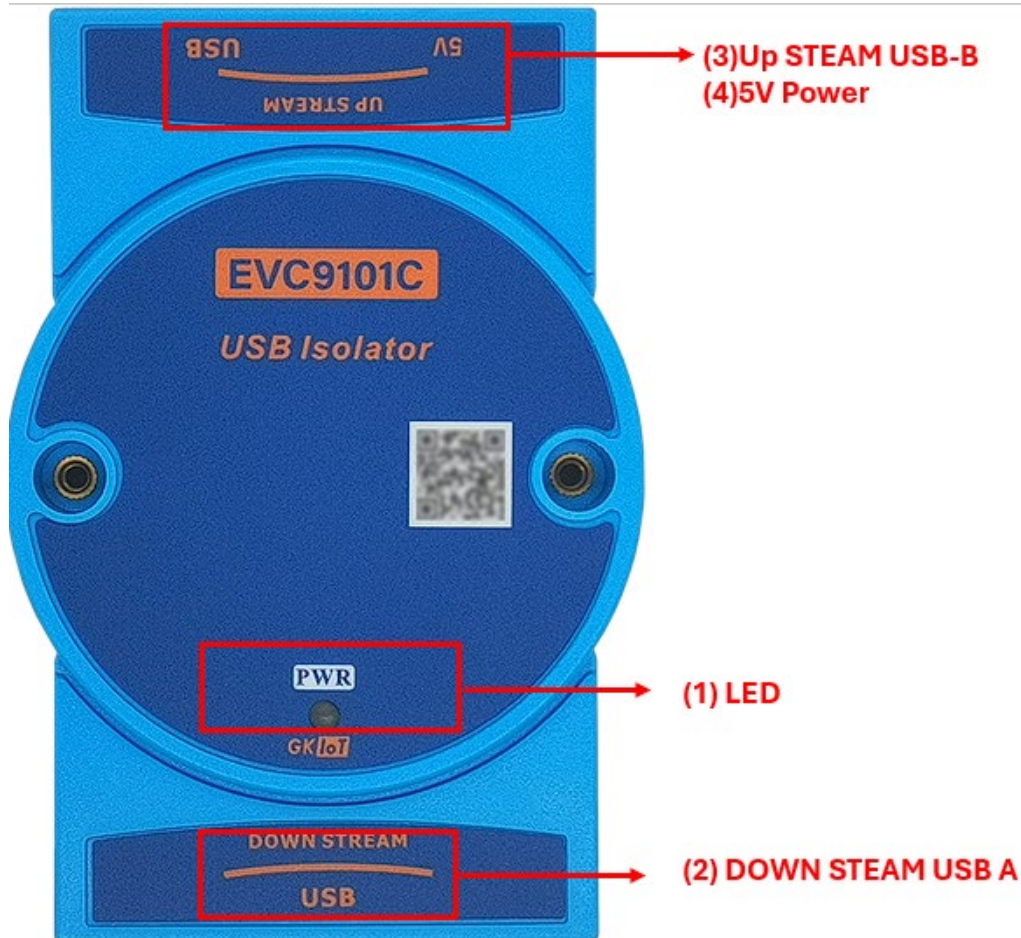
1.3 Application

- Industrial automation systems
- USB debugging device
- Medical equipment

- Isolation of various industrial USB devices
- Noise sensitive areas
- Working environment with strong electricity and strong interference
- All environments requiring electrical isolation of USB devices

2 Hardware

2.1 Interface



(1) LED	Red light on ,USB Power on indicator Blue light on ,External Power on indicator
(2) DOWN STREAM USB A Type	DOWN STREAM interface to connect USB devices

2.2 Technical parameters

Model	EVC9101C
Isolation solution	ADI high performance magnetic coupling isolation
Support speed:	Support USB low-speed, full-speed, and high-speed devices
Isolated power supply	3000V isolation voltage, Power 2W
Output current	Internal power supply mode: maximum 300mA; External power supply mode: determined by external power supply (current limit 1A)
Power supply filter	Capacitor filter
USB protection	TVS protection (upstream and downstream)
Output protection	Switch level short circuit protection
Power supply mode	USB interface power supply or external (5V DC) power supply, automatic switching
Work instructions	Red indicator for uplink power supply, blue indicator for external power supply
Operating system supports	Windows, Linux, MAC, Android, Windows CE
Installation mode	Adam module, rail installation
Working temperature	-40 - 85°C
Dimensions	weight 103×70×26 mm (L*W*H), 345g

3 Packing List

- EVC9101C High Speed USB Isolator
- High quality USB square cable
- Installation rail
- 5V DC power module
- Instructions for use

