

EVC9103 User Manual

1 turn 3 Port High Speed USB 2.0 Isolator Speed Up to 480Mbps

	
EVC9103B Without Screen	EVC9103S 0.96inch Screen

Date	Description	Revision
2025/11/4	First Released	V10

1 Description

1.1 Overview

EVC9103 is Industrial Grade USB2.0 High speed isolation technology without time delay,Support Variety of USB Devices like Camera,USB Hard Disk

Driver Free for windows/MacOs/Linux,Support high-speed, full-speed, low-speed devices Max Speed Up to 480Mbps;

Four-layer board design,Up to 1500V isolation voltag,Anti-static and anti-surge protection,Overcurrent and overvoltage protection;

Support 12V External Power Supply And 5V USB Internal Power Supply.Input And Output Protection:

TVS Protection for Both Input And Output;Switch-level up to 10us Short-Circuit for output Protection;

ESD protection for both input port and the output port ;

1.2 Features

- Provides electrical isolation for USB devices
- USB output ports
- Supports USB high-speed, full-speed, and low-speed devices
- LCD screen displays USB operation information (EVC9103S)
- Switch LCD display orientation via button (EVC9103S)
- 1000V isolation voltage
- TVS protection (upstream and downstream)
- Driver-free operation
- Suitable for USB hubs and extenders
- No additional transmission latency
- Built-in low-noise switching power regulator
- Powered via USB interface or external (12V DC) power supply
- Output port current limit: 1A
- Input port: USB Type-B female; Output ports: 3 × USB Type-A female
- Switch-level short-circuit protection
- ESD protection on both input and output ports (15kV IEC air-gap discharge)
- Supports Windows, Linux, macOS, Android, and Windows CE operating systems
- Operating temperature: -20°C to 70°C

- Mounting: Standard ADAM module, DIN-rail mountable, stackable
- Mechanical dimensions: 103 × 70 × 26 mm
- Environmentally friendly, lead-free

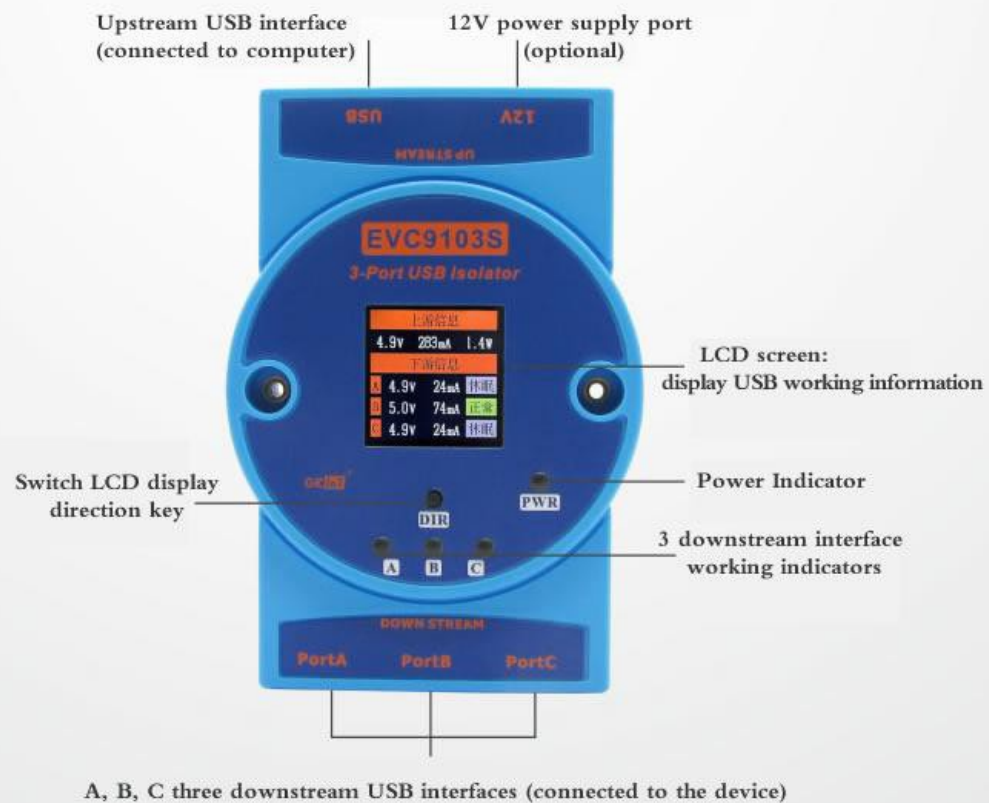
1.3 Applications

- Environments with high voltage and strong electromagnetic interference
- Industrial automation systems
- USB debugging equipment
- Medical devices
- Isolation for various industrial control USB devices
- Noise-sensitive fields
- All scenarios requiring electrical isolation of USB devices

2 Hardware

2.1 Interface

Interface/Hardware Introduction



Indicator Name	Description
DIR	Adjust Direction of Screen (Only for EVC9103S)
PWR	RED,5V USB Power Supply Enable (Connected) Blue,12V External Power Supply Enable;
A (Port A)	Grey, Port A not Connect. RED, Port A Connect;
B (Port B)	Grey, Port B not Connect. RED, Port B Connect;
C (Port C)	Grey, Port C not Connect. RED, Port C Connect;

2.3 Specification

Technical parameter	EVC9103B	EVC9103S
Supported devices	Compatible with High-speed;Full-speed;Low-speed USB Device;	
Power Supply	5V USB power supply Default. Support External 12V DC Power supply;	
Output voltage:	5V	
Output current:	Maximum 1A;	
Power Consumption	230mA	240mA
ESD Protection	IEC61000-4-2(ESD)+-15KV +-8KV	
Input Connector	One USB-B port	
Output Connector	Three USB-A ports	
Display:	Not Support	Liquid crystal display
Working Temperature	-20°C~70°C	-45°C-85°C
Mechanical size:	103X70X26(mm);(LXWXH);	
Weight:	345g	
Installation method:	Standard Adam module, rail installation stackable;	
Operating system	Windows, Linux, MAC, Android., Windows CE	

3 Packing List

Shipping List



①
(Or no display)



②



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