

EVOLUTION

A Vanco Brand

USB 2.0 EXTENDER OVER CAT5E/6 CABLE



EVEXUSB2

Perfect solution for security monitoring, gaming, industrial control, professional audio-visual, smart medical, and more.



SAFETY INSTRUCTIONS

For optimum performance and safety, please read these instructions carefully before use. Please keep this manual for future reference.

- To prevent electric shock, please ensure that all apparatus is properly grounded.
- Place the device in a well-ventilated area, do not block any ventilation openings.
- Do not expose this apparatus to rain or place it near water. Any liquid that goes into the apparatus may cause a failure, fire, or electric shock.
- Do not place the device on an uneven or unstable surface. The device may fall resulting in a malfunction.
- Never insert anything metallic into the open parts of this apparatus. This may cause a danger of electric shock.
- If a third-party power supply is used, please ensure that the power supply specifications meet the product requirements.

INTRODUCTION

The Evolution by Vanco EVEXUSB2 is a full function USB 2.0 extender over a single Cat5e/6 cable, information and control can be transmitted up to 330ft/100m over Cat5e and 492ft/150m over Cat6. Supports up to four USB 2.0 devices such as webcams, microphones, touchscreens, printers, cameras, scanners, USB flash drives, keyboards, mice, etc., and supports gigabit switch cascade capabilities. Perfect solution for security monitoring, gaming, industrial control, professional audio-visual, smart medical and more.

Product Features

- Supports USB 2.0 High-Speed
- Backwards compatible with USB 1.1 and 1.0 versions
- Supports up to four USB 2.0 A devices to a single USB 2.0 A host
- Compatible with Cat5e/6 network cables
- Cat5e transmission up to 330ft/100m
- Cat6/6A transmission up to 492ft/150m
- Supports USB hub connection
- Power supply only required at receiver end
- Supports switch relay, distance increased through a switch
- Supports hot-plugging of USB devices
- Automatically identifies USB speed
- Lightning protection, surge protection, and ESD protection
- Plug and play

Package Contents

- | | |
|--------------------------|--------------------------|
| (1) EVEXUSB2 (TX and RX) | (1) USB-A to USB-A Cable |
| (1) 5V 1A Power Supply | (1) Product Manual |



SPECIFICATIONS

Product Parameters	
Compatibility	USB 2.0, backwards compatible with USB 1.1/1.0
Transmission Rate	Up to 480 Mbps
Transmission Distance	Cat5e up to 100m / 330ft
	Cat6 up to 150m / 492ft
USB Devices	Webcams, microphones, video bars, mouse, keyboard, touchscreens, and other USB 2.0 peripherals
Switch Extension	Supports Gigabit Switches
USB Hot-Plug	Yes
Operating Systems	Windows, MacOS, Linux, Android
Inputs	4x USB-A
Output	1x USB-A
Physical Properties	
Housing	Metal
Dimensions	76mm x 60mm x 21mm / 3" x 2.4" x .83"
Weight	TX: 123g / 4.3oz
	RX: 128g / 4.5oz
Power Specifications	
Power Supply	5V, 1A
Power Consumption	Up to 2W each unit
Operating Environment	
Temperature	Working: -20 to 60°C / -4 to 140°F
	Storage: -30 to 70°C / -22 to 158°F
Protection	Contact: +/- 4KV
	Air: +/- 8KV



PANEL DESCRIPTIONS

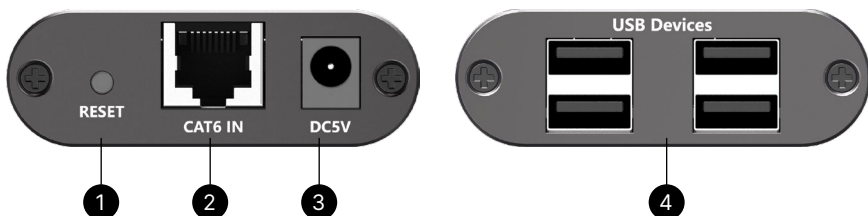
Transmitter Panel

1. USB A Port: Connect to a host device such as a computer or security NVR
2. CAT6 OUT: Connect a single Cat5e/6/6a cable from the transmitting unit to the receiving unit (home-run cabling strongly recommended without any couplings, punch-downs, or patch panels)



Receiver Panel

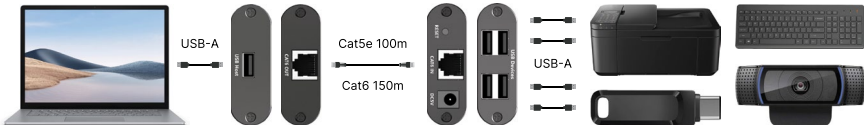
1. RESET Button: Press to reset the USB connection
2. CAT6 IN: Connect a single Cat5e/6/6a cable from the transmitting unit to the receiving unit (home-run cabling strongly recommended without any couplings, punch-downs, or patch panels)
3. DC5V: Connect to the provided 5V 1A power supply
4. USB Devices Ports: Connect up to four USB devices such as a mouse, keyboard, webcam, microphone, touchscreen, USB flash drive, or other USB peripherals to the USB A ports



OPERATION

Connect & Operate

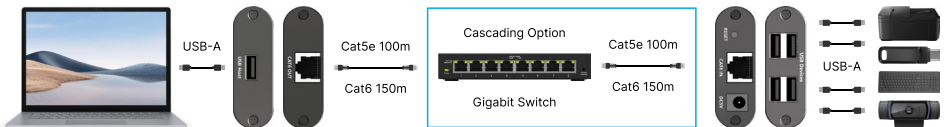
1. Connect the transmitting unit to the USB host device such as a computer or security NVR.
2. Connect up to four USB devices such as a mouse, keyboard, webcam, microphone, touchscreen, USB flash drive, or other USB peripheral to the USB A ports on the receiving unit.
3. Connect a single Cat5e/6/6a cable from the transmitting unit to the receiving unit (home-run cabling strongly recommended without any couplings, punch-downs, or patch panels).
4. Plug the power supply into the receiver and test.



Cascading

Using a gigabit switch, you are able to extend the length of extender even further. The rated length remains where each Cat5e cable can be up to 100m/330ft and Cat6 can be up to 150m/492ft to and from the switch for a combined maximum range of up to 300m/984ft.

1. Connect the transmitting unit to the USB host device such as a computer or security NVR
2. Connect up to four USB devices such as a mouse, keyboard, webcam, microphone, touchscreen, USB flash drive, etc. to the receiving unit
3. Connect a single Cat5e/6/6a cable from the Transmitting Unit to a gigabit switch
4. Connect a single Cat5e/6/6a cable from the gigabit switch to the Receiving unit
5. Plug the power supply into the receiver and test



Note: Strongly recommended running cabling without any couplings, punch-downs, or patch panels. Using a gigabit switch to achieve longer cable runs will increase the latency of the extender set.

LIMITED WARRANTY

With the exceptions noted in the next paragraph, Vanco warrants to the original purchaser that the equipment it manufactures or sells will be free from defects in materials and workmanship for a period of 10 years from the date of purchase. Should this product, in Vanco's opinion, prove defective within this warranty period, Vanco, at its option, will repair or replace this product without charge. Any defective parts replaced become the property of Vanco. This warranty does not apply to those products which have been damaged due to accident, unauthorized alterations, improper repair, modifications, inadequate maintenance and care, or use in any manner for which the product was not originally intended.

Items integrated into Vanco products that are made by other manufacturers, notably computer hard drives and liquid crystal display panels, are limited to the term of the warranty offered by the respective manufacturers. Such specific warranties are available upon request to Vanco. A surge protector, power conditioner unit, or an uninterruptible power supply must be installed in the electrical circuit to protect against power surges.

If repairs are needed during the warranty period the purchaser will be required to provide a sales receipt/sales invoice or other acceptable proof of purchase to the seller of this equipment. The seller will then contact Vanco regarding warranty repair or replacement.

TECHNICAL SUPPORT

In case of problems, please contact Vanco Technical Support by dialing 1-800-626-6445. You can also email technical support issues to techsupport@vanco1.com. When calling, please have the Model Number, Serial Number (affixed to the bottom of the unit) and Invoice available for reference during the call.

Please read this instruction manual prior to calling or installing this unit, since it will familiarize you with the capabilities of this product and its proper installation.

All active electronic products are 100% inspected and tested to insure highest product quality and trouble-free installation and operation. The testing process utilizes the types of high-definition sources and displays typically installed for entertainment and home theater applications.

For additional information, such as helpful installation videos, etc. please visit www.vanco1.com.

LIABILITY STATEMENT

Every effort has been made to ensure that this product is free of defects. The manufacturer of this product cannot be held liable for the use of this hardware or any direct or indirect consequential damages arising from its use. It is the responsibility of the user and installer of the hardware to check that it is suitable for their requirements and that it is installed correctly. All rights are reserved. No parts of this manual may be reproduced or transmitted by any form or means electronic or mechanical, including photocopying, recording or by any information storage or retrieval system without the written consent of the publisher.

Manufacturer reserves the right to revise any of its hardware and software following its policy to modify and/or improve its products where necessary or desirable. This statement does not affect the legal rights of the user in any way.

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