VIVOLINk VLUSB3EXT100D 100m USB3.2 Gen1 Extender overHDBT

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VIVOLINk VLUSB3EXT100D 100m USB3.2 Gen1 Extender overHDBT



Product Information

Specifications

• Model: VLUSB3EXT100D

• Product Name: 100m USB3.2 Gen1 Extender over HDBT

• Version: VLUSB3EXT100D 2024V1.0

Product Introduction

The 100m USB 3.2 Gen1 Extender over HDBT is designed to extend USB connections over long distances. Please read the user manual carefully before using the product.

Features

- Extend USB 3.2 Gen1 connections up to 100m
- High-quality transmission over HDBT
- · Easy to install and use

Package List

- 100m USB 3.2 Gen1 Extender unit
- · Power adapter
- User manual

Product Usage Instructions

Safety Precautions

Before using the device, please ensure to follow these safety precautions:

- Unpack the equipment carefully and save the original box and packing material for possible future shipment.
- Do not dismantle the housing or modify the module to avoid electrical shock or burn risks.
- Use only supplies or parts meeting the product's specifications to prevent damage or malfunction.
- Refer all servicing to qualified service personnel.
- Avoid exposure to rain, moisture, or water to prevent fire or shock hazards.

- Do not put heavy items on the extension cable to prevent extrusion.
- Keep the device away from liquids to avoid fire, shock, or equipment damage.
- Ensure proper ventilation during installation to prevent overheating.
- Unplug the power cord when the device is left unused for a long period of time.

Cleaning and Maintenance

When cleaning the unit:

- Do not use liquid or aerosol cleaners.
- · Always unplug the power before cleaning.

Disposal Information

For scrapped devices:

- Do not burn or mix with general household waste.
- Treat them as normal electrical wastes.

Frequently Asked Questions (FAQ)

• Q: Can I use this extender with any USB device?

A: The extender is compatible with most USB devices, but it's recommended to check the specifications of your device for compatibility.

· Q: How do I troubleshoot connectivity issues with the extender?

A: Check the connections, ensure proper power supply, and make sure the cables are not damaged. If issues persist, contact customer support for assistance.

VLUSB3EXT100D

100m USB3.2 Gen1 Extender over HDBT

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Version: VLUSB3EXT100D_2024V1.0

Preface

Read this user manual carefully before using the product. Pictures shown in this manual are for reference only. Different models and specifications are subject to real product.

This manual is only for operation instruction, please contact the local distributor for maintenance assistance. The functions described in this version were updated till January, 2023. In the constant effort to improve the product, we reserve the right to make functions or parameters changes without notice or obligation. Please refer to the dealers for the latest details.

SAFETY PRECAUTIONS

To ensure the best from the product, please read all instructions carefully before using the device. Save this manual for further reference.

- Unpack the equipment carefully and save the original box and packing material for possible future shipment
- Follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.

- Do not dismantle the housing or modify the module. It may result in electrical shock or burn.
- Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.
- Refer all servicing to qualified service personnel.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Do not put any heavy items on the extension cable in case of extrusion.
- Do not remove the housing of the device as opening or removing housing may expose you to dangerous voltage or other hazards.
- Install the device in a place with fine ventilation to avoid damage caused by overheat.
- Keep the module away from liquids.
- Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- Do not twist or pull by force ends of the cable. It can cause malfunction.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
- Unplug the power cord when left unused for a long period of time.
- Information on disposal for scrapped devices: do not burn or mix with general household waste, please treat them as normal electrical wastes.









Product Introduction

Thanks for choosing the 100m USB 3.2 Gen1 extender. The extender is designed to transmit USB signal up to 100m distance. VLUSB3EXT100D is the device port of the extender, it contains four USB ports. Applications include extending USB 3 conferencing cameras, video capture devices, and audio devices for boardrooms and conference rooms. It is also ideal for use with all USB peripherals in addition to USB 3.2 Gen 1 conference cameras including: flash drives, hard drives, keyboards, mice, interactive white boards, touchscreens, audio devices, and other USB 3.2 Gen1 devices.

Features

- USB3.2 Gen1 data transfer rate up to 5Gbps;
- Support extend USB signal up to 100m;
- Support RS232 pass-through/control/upgrade;
- Support USB device power management;
- · Bi-directional 24V PoC power supply.

Package List

- 1x VLUSB3EXT100D
- 1x Mounting Kit
- 1x 3-pin Terminal Block
- 4x Rubber feet
- 1x User Manual

Note: Please contact your distributor immediately if any damage or defect in the components is found.

Specification

VLUSB3EXT100D				
Devices Connector	(3) Type-A USB (1) Type-C USB			
Devices Power	 Devices share 3A current limit; Single port power supply maximum limit 1.7A. 			
USB Version	USB 3.2 Gen1			
Control Part				
Control	(1) RS232 (1) DIP switch			
Control Connector	(1) 3-pin terminal block (1) 2-pinDIP switch			
General				
Transmit distance	Up to 100m with CAT6A cable (The current version only reaches the 70 m extension)			
Data Rate	5Gbps			
Operation Temperature	-10°C ~ +55°C			
Storage Temperature	-25°C ~ +70°C			
Relative Humility	10% ~ 90%			
External Power Supply	DC 24V 1.5A			
Power Consumption	19W (Max)			
Dimension (W*H*D)	133.0mm x 21.5mm x 105.0mm			
Net Weight	340g			

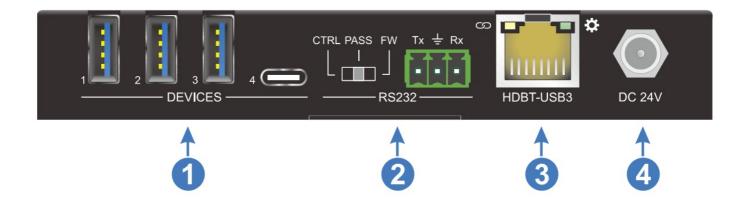
Panel Description

Front Panel



- 1. Power LED: The LED illuminates green when the unit is power on.
- 2. **PoC**: 1x DIP switch, turn on/off the PoC.

Rear Panel



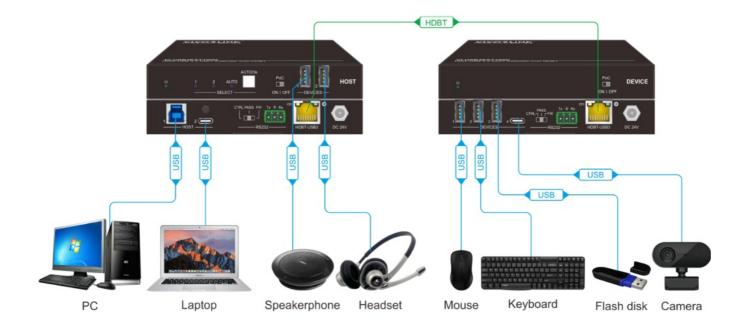
- 1. Devices: 3x USB-A and 1x USB-C 3.2 gen1 for connecting KVM devices, cameras or other USB devices. Devices share 3A current limit, single port power supply maximum limit 1.7A.
- 2. RS232: 1x 3-pin DIP switch for select the RS232 port function.
 - CTRL: Control the unit via sending the RS232 commands
 - PASS: RS232 pass-through.
 - FW: Firmware upgrade.
- 3. **HDBT-USB3**: 1x RJ45 port for connecting with the device unit of the extender. The yellow light indicates the connection status of the HDBT, and the green LED is the data light.
- 4. **DC 24V:** DC barrel port for DC24V 1.5A power adapter connection.

System Connection

Usage Precaution

- Make sure all components and accessories included before installation.
- System should be installed in a clean environment with proper temperature and humidity.
- All of the power switches, plugs, sockets, and power cords should be insulated and safe.
- All devices should be connected before power on.

System Diagram



RS232 Control

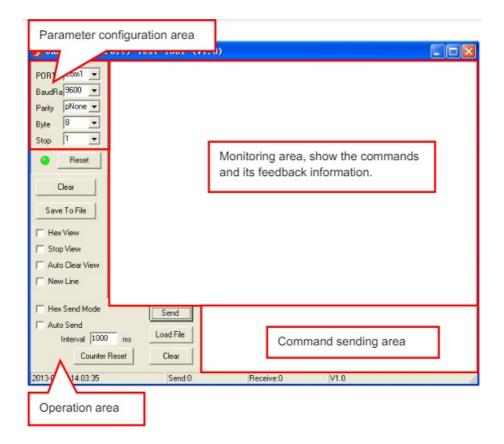
Connect the RS232 port to control device (e.g. PC) with RS232 cable. The switcher can be controlled by sending RS232 commands.

1. RS232 Control Software

- Installation: Copy the control software file to the control PC.
- Uninstallation: Delete all the control software files in corresponding file path. Basic Setting:
- Connect the switcher with all input devices and output devices needed, then to connect it with a PC which is installed with RS232 control software. Double-click the software icon to run this software. Here takes the software CommWatch.exe as an example:



The main view is shown as below:



Please set the parameters of COM number, baud rate, data bit, stop bit and the parity bit correctly, and then you will be able to send command in command sending area.

RS232 Command

• Communication protocol: RS232 Communication

• Protocol Baud rate: 9600

Data bit: 8Stop bit: 1

• Parity bit: none

NOTE

All commands need to be ended with "<CR><LF>". 5.2.1 System Control

Command	Description	Example & Command Feedback
>Help	Query commands	>Help
>GetStatus	Query status	>GetStatus • <vlusb3ext100d 01="" 9600<="" <autoswitch="" <device="" <device1="" <device2="" <device3="" <fw="" <poc="" <setrs232baud:="" <usb="" follow="" host="" mode="" off="" on="" power="" th="" v1.0.0a="" version:="" •=""></vlusb3ext100d>
>Reboot	Restart the unit	>Reboot <reboot< th=""></reboot<>
>FactoryReset	Factory default the unit	>FactoryReset

		<factoryreset< th=""></factoryreset<>
>SetDeviceFollow [Param 1]	 Set the devices power mode: Param = On (Follow mode, turn off the power when no host connect) Param = Off (Always on, always provide the power to devices) 	>SetDeviceFollow On
		<set device="" follow="" host="" mode="" on<="" power="" th=""></set>
>GetDeviceFollow	Query devices power mode	>GetDeviceFollow
		<device follow="" host="" mode="" on<="" power="" td=""></device>
>SetRS232Baud	 Set the baud rate of the unit. Param = 9600(default), 19200, 3 8400, 57600, 115200 	>SetRS232Baud 9600
		<setrs232baud: 9600<="" td=""></setrs232baud:>
SetDevicePower Ingram		>SetDevicePower 0 Off
	y on/off Param1 = 00~04 00: All devices 01~04: Device1~ Device4	<set all="" device="" off<="" power="" th=""></set>
>GetDevicePower	Query devices power status	>GetDevicePower
		 <device1 li="" on<="" power=""> <device2 li="" on<="" power=""> <device3 li="" off<="" power=""> <device4 li="" off<="" power=""> </device4></device3></device2></device1>

Panel Drawing



Documents / Resources



VIVOLINK VLUSB3EXT100D 100m USB3.2 Gen1 Extender overHDBT [pdf] User Manual VLUSB3EXT100D 100m USB3.2 Gen1 Extender overHDBT, VLUSB3EXT100D, 100m USB3.2 Gen1 Extender overHDBT, Extender overHDBT, overHDBT

References

• User Manual

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