User Manual
PT-E-U34-D

PureTools

User Manual

USB3 Cat Extender Hub (Device-Side)

Model PT-E-U34-D
Designed in Germany

VersionV1.0

PureTools

Preface

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

This manual is for operation instructions only, not for any maintenance usage.

In the constant effort to improve our product, we reserve the right to make changes in functions or parameters without prior notice or obligation.

Trademarks

Product model and logo are trademarks. Any other trademarks mentioned in this manual are acknowledged as the properties of the trademark owner. No part of this publication may be copied or reproduced without prior written consent.

FCC Statement

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. It has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation.

Operation of this equipment in a residential area is likely to cause interference, in which case the user at their own expense will be required to take whatever measures may be necessary to correct the interference.

Any changes or modifications not expressly approved by the manufacture would void the user's authority to operate the equipment.

FC

REACH | 1907/2006/EU

ROHS | 2011/65/EU

PureLink hereby declares that this product **PureTools PT-E-U34-D** complies with Directives 1907/2006/EU and 2011/65/EU.

EMC / LVD (Electro Magnetic Compatibility / Low Voltage Directive)

PureLink GmbH hereby declares that this product **PureTools PT-E-U34-D** complies with Directives 2014/30/EU and 2014/35/EU. The full text of the EU Declaration of Conformity is available at the following Internet address:

http://www.purelink.de/ce/4251364745823_CE.pdf

CE

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 overheating.
- 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 optical 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 scrap devices: do not burn or mix with general household waste, please treat them as normal electrical wastes.

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1.Product Introduction

1.1 Introduction

The PT-E-U34-D is a USB3.2 Gen1 Cat extender hub (Device-Side). The extender is designed to transmit USB signal up to 100m distance. It is the device side of the extender, with USB power management and containing four USB ports. The extender also supports two-way 24V PoC power supply. Applications include extending conferencing cameras, video capture devices, and audio devices for boardrooms and conference rooms or for any high bandwidth data device.

1.2 Feature

- USB3.2 Gen1 data transfer rate up to 5Gbps;
- Extends USB signals up to *100m with CAT6A cable;
- Supports USB device power management;
- Supports RS232 pass-through;
- Provides up to 3A current for devices;
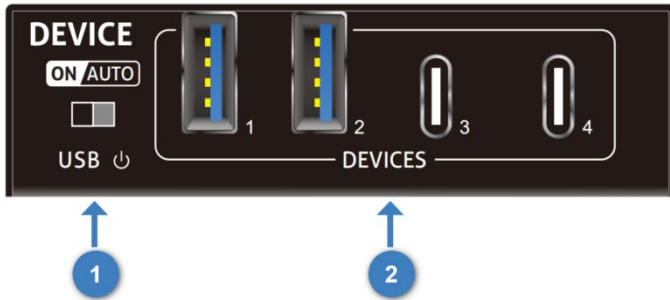- Two-way 24V PoC power supply;

1.3 Package List

- 1x PT-E-U34-D
- 2x Mounting ears & 4x Screws
- 1x Manual
- 1x Power adapter (24V, 1.5A)
- 1x 3-pin Terminal block

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

*100m range is the maximum possible range under ideal circumstances; it is recommended that around 80-90m be the limit when the quality or length of cable is unknown
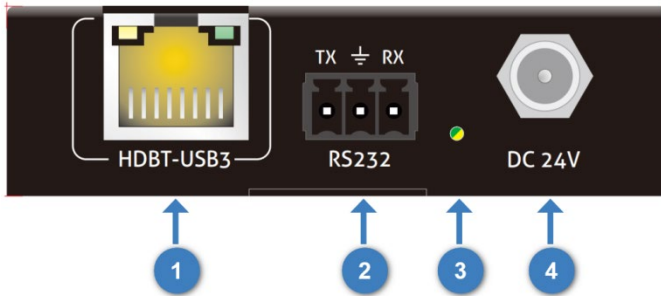
2. Panel Description

Front Panel

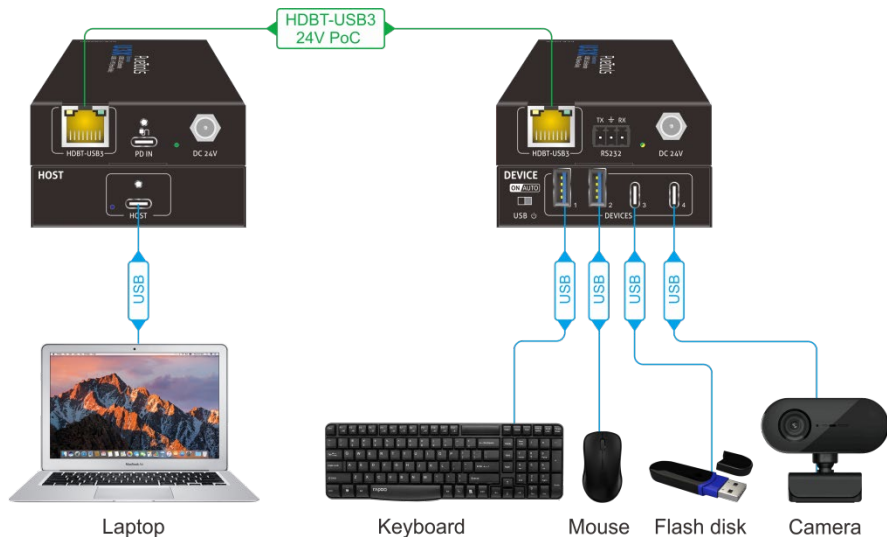| No.	Name	Description
①	USB power	DIP switch for USB device ports power settings: AUTO(Default): Follow Host, USB device ports will only output power when a host is actively connected; ON: USB device ports output power all the time.
②	DEVICES	2x USB 3.2 Gen1 Type-A and 2x USB 3.2 Gen1 Type-C for connecting KVM devices, cameras or other USB devices; Devices share 3A current limit and limit 1.7A per port.

Rear Panel

No.	Name	Description
①	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.
②	RS232	1x 3-pin terminal block for RS232 pass-through;
③	Power LED	The LED illuminates green when the unit is power on; Yellow and green lights flash alternately when the current is too high. (When over the total current limitation for USB devices).
④	DC 24V	DC locking barrel port for power adapter connection.

3. Specification

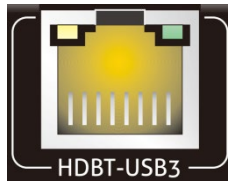| USB	
Devices Connector	2x Type-A USB,2x Type-C USB
Devices Power	5V 3A total, limit 1.7A per port.
USB Version	USB 3.2 Gen1
Number of Hub chips	1 internal +1 additional for extension
System example	PT-E-U3CPD-H + PT-E-U34-D = 3 Hub chips total
Control	
Control	1x USB power switch
Control Connector	1x DIP switch
General	
Transmit distance	Up to 100m with CAT6A cable
PoC standard	Two-way 24V PoC
Data Rate	5Gbps
Operation Temperature	-10 to +55°C
Storage Temperature	-25 to +70°C
Relative Humility	10% ~ 90%
External Power Supply	DC 24V 1.5A
Power Consumption	20.2W (Max)
Dimension (W*H*D)	75.0mm x 21.5mm x 130.0mm
Net Weight	265g

4. System Diagram

5. HDBT-USB3

The RJ45 port is used for data transmission and supports 24V PoC power supply and 12-48V power supply.

The yellow light indicates the connection status, and the green light indicates the data transmission status.

Status	Definition
Yellow light off	No CAT cable / active connection.
Yellow light blink	Connecting or unstable connection between host and device.
Yellow light lit	Stable connection between host and device.
Green light off	No USB data signal is transmitting.
Green light flashes regularly (for every 500ms)	USB 2.0 data transmitting.
Green light flashes irregularly (for uncertain interval):	USB data transmission fault.
Green light lit	USB 3.x data transmitting.

6. After-Sales Service

If there are some problems when running the product, please check and deal with the problems by referring to this user manual. Any transport costs are borne by the users during the warranty period.

1) **Product Limited Warranty:** This product will be free from defects in materials and workmanship for **three years** (The purchase invoice shall prevail).
Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the Warranty period must be presented to obtain warranty service.

2) **What the warranty does not cover (servicing available for a fee):**
   - Warranty expiration.
   - Factory applied serial number has been altered or removed from the product.
   - Damage, deterioration or malfunction caused by:
     - Normal wear and tear.
     - Use of supplies or parts not meeting our specifications.
     - No certificate or invoice as the proof of warranty.
     - The product model showed on the warranty card does not match with the model of the product for repairing or had been altered.
     - Damage caused by force majeure.
     - Servicing not authorized by distributor.
     - Any other causes which does not relate to a product defect.
   - Delivery, installation or labor charges for installation or setup of the product.

3) **Technical Support:** For any questions or problems, contact your distributor or reseller and tell them the respective product name and version, the detailed failure situation as well as the formation of the cases.

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Asking for Assistance

Technical Support:

Phone: +49 5971 800299 - 0

Fax: +49 5971 800299 – 99

Technical Support Hours:

8:30 AM to 5:00 PM Monday thru Thursday

8:30 AM to 4:00 PM Friday

Write to:

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