USB 2.0 4-Port Extender Kit, 50M

Operation Manual

100518

SAFETY PRECAUTIONS

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

● Follow basic safety precautions to reduce the risk of fire, electrical shock and injury.

● Do not dismantle the housing or modify the module. It may result in electrical shock or burns.

● Do not open or remove the housing of the device as you may be exposed to dangerous voltage or other hazards.

● To prevent fire or shock hazard, do not expose the unit to rain, moisture and do not install this product near water. Keep the product 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 use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.

● Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.

● Refer all servicing to qualified service personnel.

● Install the device in a place with adequate ventilation to avoid damage caused by overheat.

● Unplug the power when left unused for a long period of time.

● Information on disposal of devices: do not burn or mix with general household waste, please treat them as normal electrical waste.

NOTICE: Please read this manual carefully before using this product.

Table of Contents

1.Introduction

The USB 2.0 4-Port Extender Kit, 50M enables USB 2.0 connectivity over Cat5e/6 at data rates up to 480Mbps & extends true USB up to 50m (164ft) over standard Cat5e/6 UTP. This USB 2.0 4-Port Extender Kit is true plug and play, requires no additional software drivers, and is compatible with all major operating systems. The unit supports a wide variety of USB extension applications including security, industrial control, digital signage, scientific data acquisition and other implementations of USB standards.

2. Features

- Supports four (4) USB Peripheral devices.
- Extends USB devices up to 50m (164ft) over Cat5e/6 cable.
- Supports USB 2.0 high-speed, USB 1.1 full-speed and USB 1.0 low-speed.
- True plug and play, no driver installation required.
- Supports hot plug function.
- Compatible with major operating systems.

3. Package Contents

- One (1) Transmitter unit.
- One (1) Receiver unit.
- One (1) 5VDC Power adapter.
- One (1) USB 2.0 Type A/M to Type B/M Cable 0.6m.

Notes：Confirm that the product and accessories are all included. If not, please contact the supplier from which you purchased the unit.

4. Specifications

| Device		Host Side (TX)	Device Side (RX)
Connectors	Input	1x USB (Type B)	1x RJ-45
	Output	1x RJ-45	4x USB (Type A)
Bandwidth		Up to 480 Mbps	
Dip Switch		2-Pin, for signal equalization	
Cable		Cat. 5e/6	
Max. Cable Length		50m (164ft)	
Power Supply		PC USB port	5VDC 2A PSU
Temperature		Operating: 0° to 40°C Storage: -20° to 60°C Humidity: 20 to 90% non-condensing	
Enclosure		Metal	
Unit Dimensions		2.8" x 2.4" x 1.0" (72 x 61 x 26 mm)	
Shipping Weight		1.44lbs (0.65kg)	
Warranty		1 Year	
Ordering Information		100518 USB 2.0 4-Port Extender Kit, 50M (UPC 627699505182)	

5. Panels Description

5.1 Transmitter unit
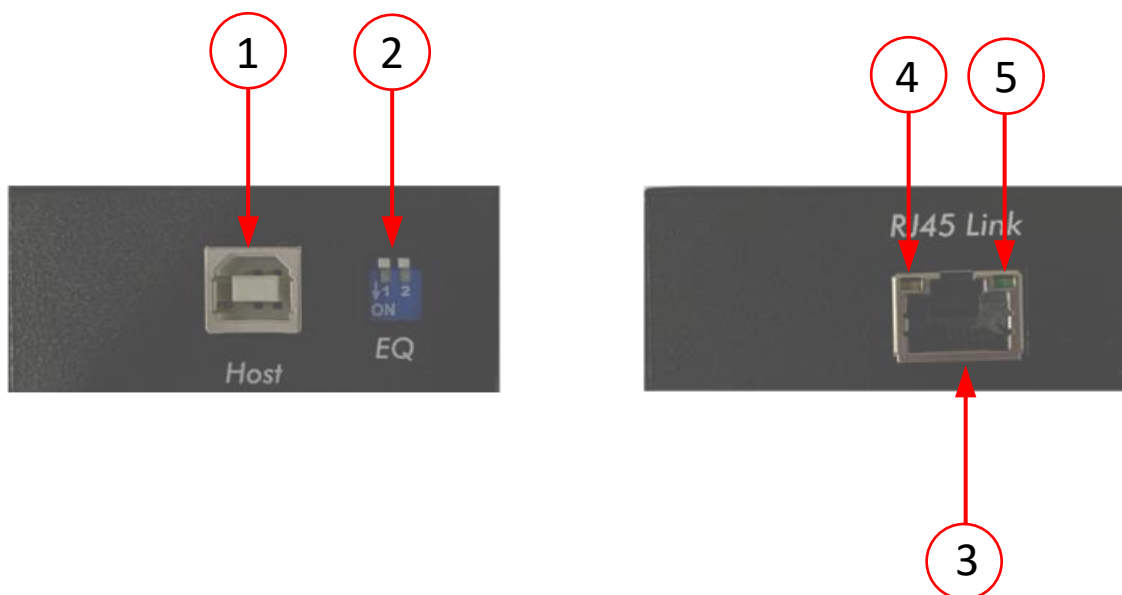
No.	Name	Description
1	Host	This connector is used to connect the USB cable that is connected to the USB port of the computer.
2	EQ	Use the DIP switch (see table 1 below) to adjust the equalization level. The equalization level varies from EQ # 1 (MAX or higher) to EQ # 3 (MIN or weaker) for the respective transmission length from the longest possible range to the shortest distance.
3	RJ45 Link	Plug in a CAT-5/5e/ 6 cable (50m max) that must be connected to the RJ-45 connector of the Receiver unit.
4		Power indicator
5		Signal indicator

DIP Switch Position				Description
PIN#1	**PIN#2**	**ON [⬇]**	**OFF [⬆]**	EQ#1 (MAX or Strongest)
		OFF [⬆]	**ON [⬇]**	EQ#2
		OFF [⬆]	**OFF [⬆]**	EQ#3 (MIN or Weakest)
		ON [⬇]	**ON [⬇]**	Reserved

Table 1

5.2 Receiver unit
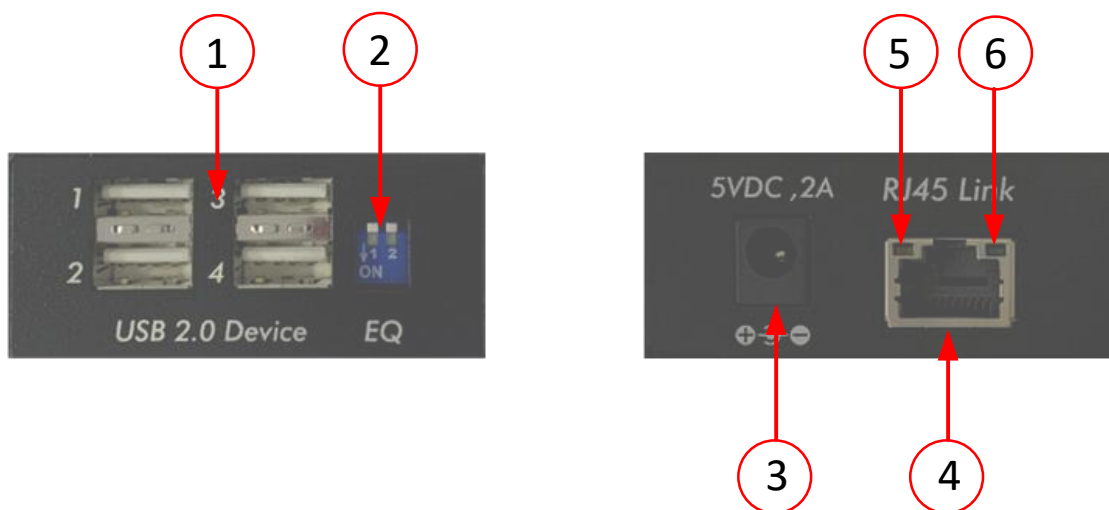
No.	Name	Description
1	USB 2.0 Device	These connectors are used to connect the USB cables that are connected to the USB ports of the devices (keyboards, mice, printers, storage devices, cameras, card readers, etc.).
2	EQ	Use the DIP switch (see table 1 above) to adjust the equalization level. The equalization level varies from EQ # 1 (MAX or higher) to EQ # 3 (MIN or weaker) for the respective transmission length from the longest possible range to the shortest distance.
3	5VDC, 2A	Power jack.
4	RJ45 Link	Plug in a CAT-5/5e/ 6 cable (50m max) that must be connected to the RJ-45 connector of the Transmitter unit.
5		Power indicator
6		Signal indicator

6. Connection

Connection Diagram
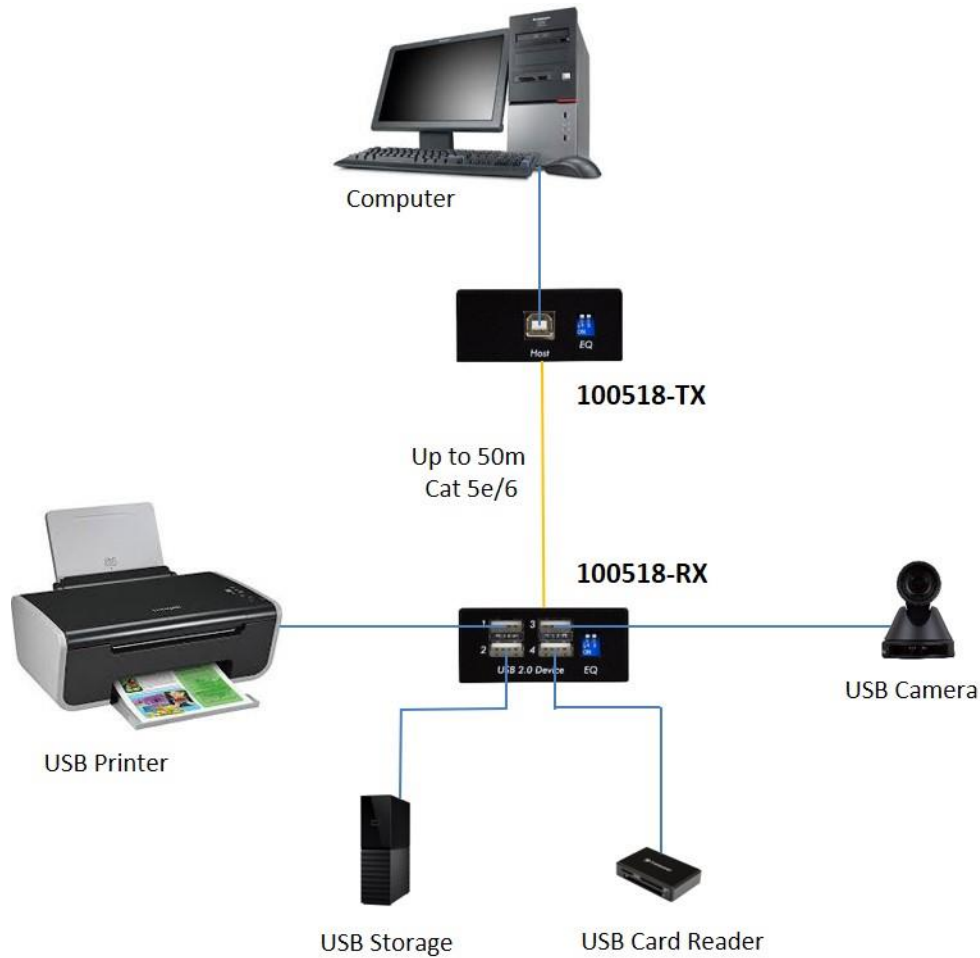
1. Connect a USB cable between the USB port of the computer and the "Host" port on the Transmitter. Note that in addition to transmitting data, this connection also powers the Transmitter.

2. Connect a CAT 5e/6 cable (50m max) between the "RJ45 Link" connector of the Transmitter and the Receiver.

3. Connect the Receiver's power supply to the electrical outlet.

4. Connect the USB cables that are connected to the USB ports of the devices (keyboards, mice, printers, cameras, etc.) to the "USB 2.0 Device" ports on the Receiver.

5. Note that no configuration or driver installation is required.

7. Regulatory Compliance

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CE/FCC & Recycling Information

CE Certification

This equipment complies with the requirements relating to Electromagnetic Compatibility Standards EN55022/EN55024 and the further Standards cited therein. It must be used with shielded cables only. It has been manufactured under the scope of RoHS compliance.

FCC Certification

This equipment 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 residential installation. You are cautioned that changes or modification not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation

WEEE (Waste of Electrical and Electronic Equipment), Recycling of Electronic Products

In 2006 the European Union introduced regulations (WEEE) for the collection and recycling of all waste electrical and electronic equipment. It is no longer allowable to simply throw away electrical and electronic equipment. Instead, these products must enter the recycling process.

Each individual EU member state has implemented the WEEE regulations into national law in slightly different ways. Please follow your national law when you want to dispose of any electrical or electronic products. More details can be obtained from your national WEEE recycling agency.

2321 Cohen Road, Saint-Laurent, Quebec, Canada. H4R 2N7

Tel: (514) 905-0588   Fax: (514) 905-0589

Toll Free (North America): (877) 689-5228