SC&T

USB/Keyboard Mouse Extender

User Manual

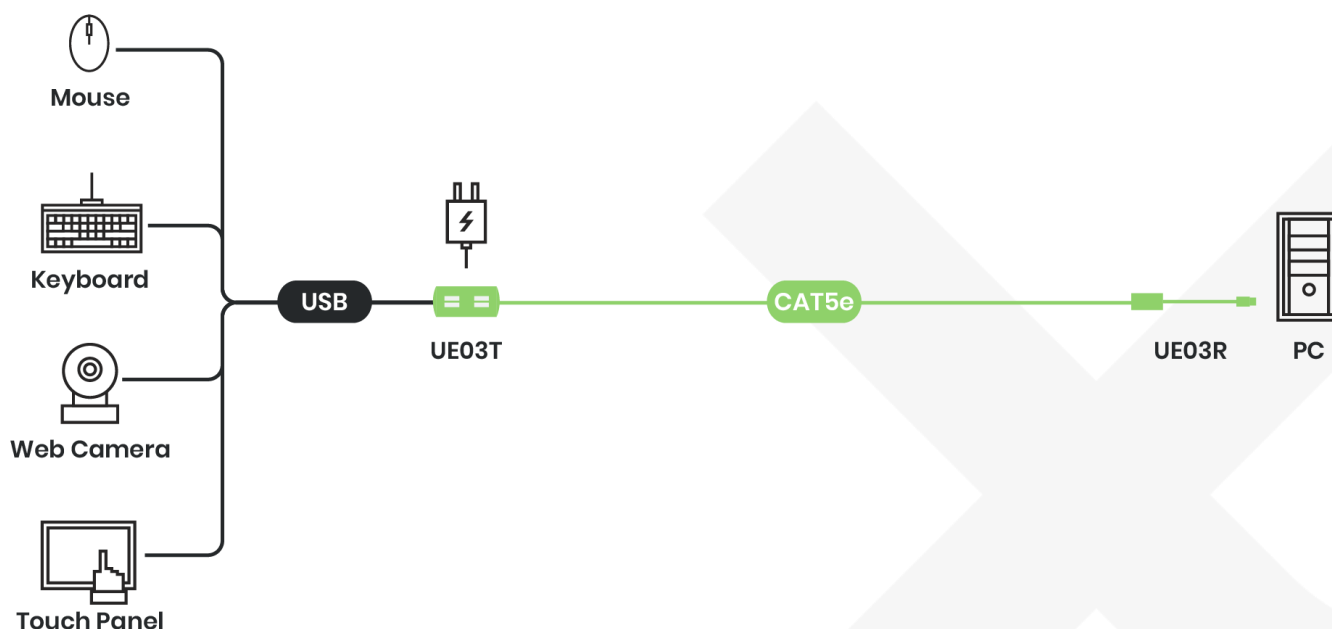Model : UE03

USB 2.0 CAT5e Extender with 4 Port Hub 50M

Introduction

UE03 is a peripheral device designed for extending 4 of USB 2.0 signals, such as USB cameras, touch screen, touchpad, HDD(External Hard Drive),USB flash drives, keyboards, mouses…etc.

Features

- Extends 4 USB signals over an Ethernet cable.
- Signal extension up to 50M (USB2.0), 90M (USB1.0/ 1.1) over a CAT5e cable.
- Supports USB 2.0 high-speed and USB 1.1 low-speed, full speed devices.
- Built-in 4 USB ports at TX unit for remote control.
- Plug & play.

Installation View

Transmission Chart

USB Standard	Data Rate	Distance	Cable
USB2.0	480Mbps	50M	CAT5e/CAT6
USB1.1/ USB1.0	12/1.5Mbps	90M	CAT5e/CAT6

*The transmission test is conducted by the application of **COMMSCOPE (57535-2) CAT5e** cables.

Link Cable

1. It's recommended to use high-quality Ethernet cables, such as CAT5e, CAT6. The thicker the cable and the wider the diameter is, the better transmission performance.
2. It's recommended to use solid conductors rather than copper-clad steel or stranded conductor cables which might decrease the transmission performance.
3. Please note that STP/FTP cables might decrease the transmission distance.

Panel View
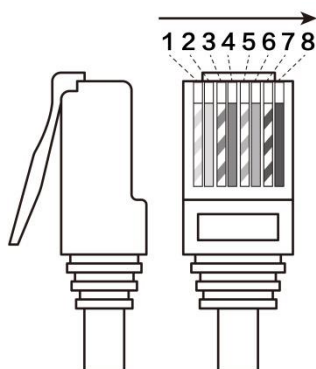
UE03T Client Unit

UE03R Local Unit

LED Status

LED Status	Blinking	Breathing	Dark
Function	Data Transferring	Stand-by*	No Power to UE03T

*Stand-by Description
1. UE03T is not connected to UE03R.
2. UE03T is connected to UE03R, but no USB Host connected to UE03R.
3. UE03R is connected to UE03T and a USB Host, but the USB Host is power-off.
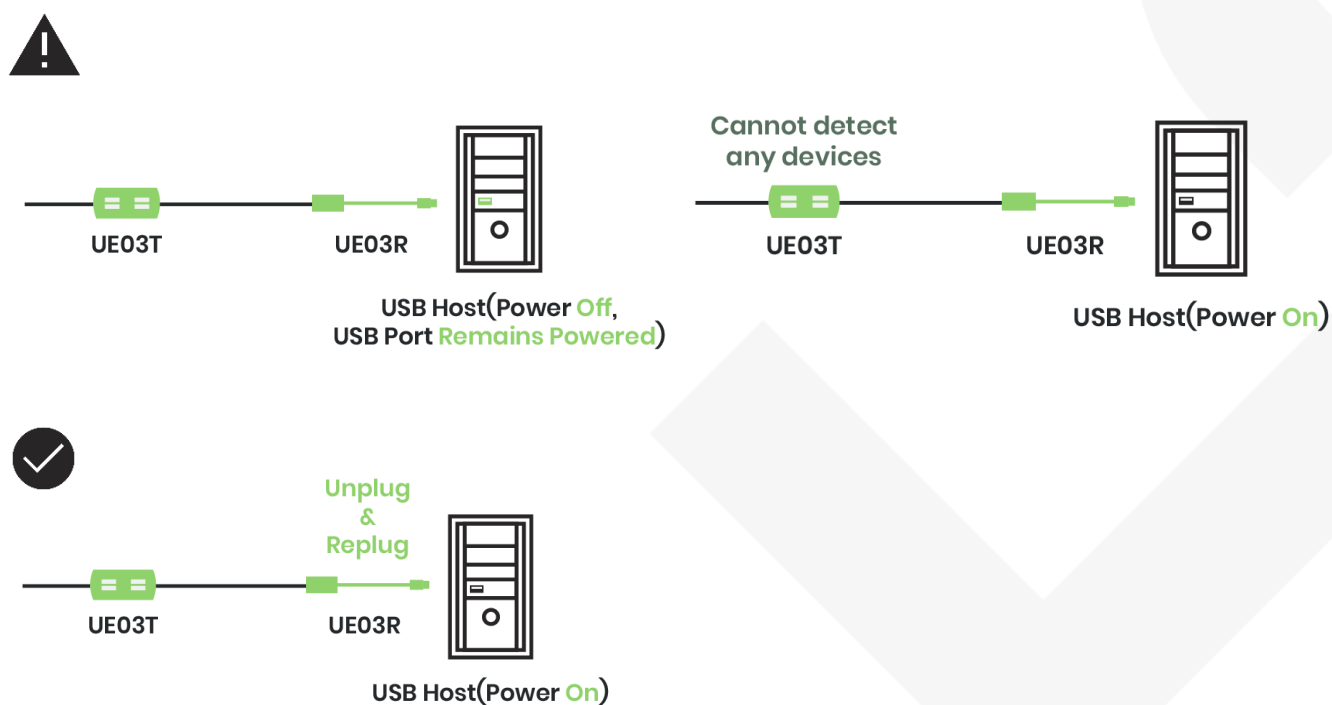
RJ45 Pin Define

PIN		Signal
1	Orange-white	DATA +
2	Orange	DATA -
3	Green-white	
4	Blue	
5	Blue-white	
6	Green	
7	Brown-white	
8	Brown	

Caution

1. UE03 is not an Ethernet device, which CAN NOT connect to any Ethernet or PoE device.
2. The cabling must be away from any equipment with electromagnetic wave, i.e.: microwave, radio equipment, high voltage.
3. UE03 is not applicable for USB hosts that remain powered after PC/Laptop are shut down.
   *If the given situation is encountered as showed in Fig 1, devices connected to UE03T will not be recognized. Try to un-plug and re-plug the USB port of UE03R or plug to another USB host port (not powered after shut down) to solve the issue.

Fig 1

UE03T   UE03R

USB Host(Power Off, USB Port Remains Powered)

Cannot detect any devices

UE03T   UE03R

USB Host(Power On)

Unplug & Replug

UE03T   UE03R

USB Host(Power On)

Package Includes:

No.	Item	Amount
1	UE03T	1
2	UE03R	1
3	Screw	4
4	Screw Plug	4
5	DC5V 2A Power Adapter	1

Specification

ITEM NO.	UE03T	UE03R
Support		
Compliance	USB 2.0, USB 1.1, USB1.0	
Data Bandwidth	480Mbps (High-speed), 12Mbps (Full-speed), 1.5Mbps (Low-speed)	
Max. Transmission Distance	50M (USB2.0)/ 90M (USB1.0/ 1.1)	
Ports & Interfaces		
Data Input	4 x USB Type A (Female)	1 x RJ45
Data Output	1 x RJ45	1 x USB Type A (Male)
Power		
Power Supply	DC 5V 2A Regulated	No Power Required
Power Output	500mA / each USB device connected	
Power Consumption	1.5W	1W
Ambient Temperature		
Operation	0 to 55℃	
Storage	-20 to 85℃	
Humidity	Up to 95%	
Physical Characteristics		
Dimensions	60 x 70 x 27mm	25.4 x 25.4 x 240mm & 190mm cable
Weight	115g	55g

RoHS $C\epsilon$