# SC&T

# User Manual

Model : UE03
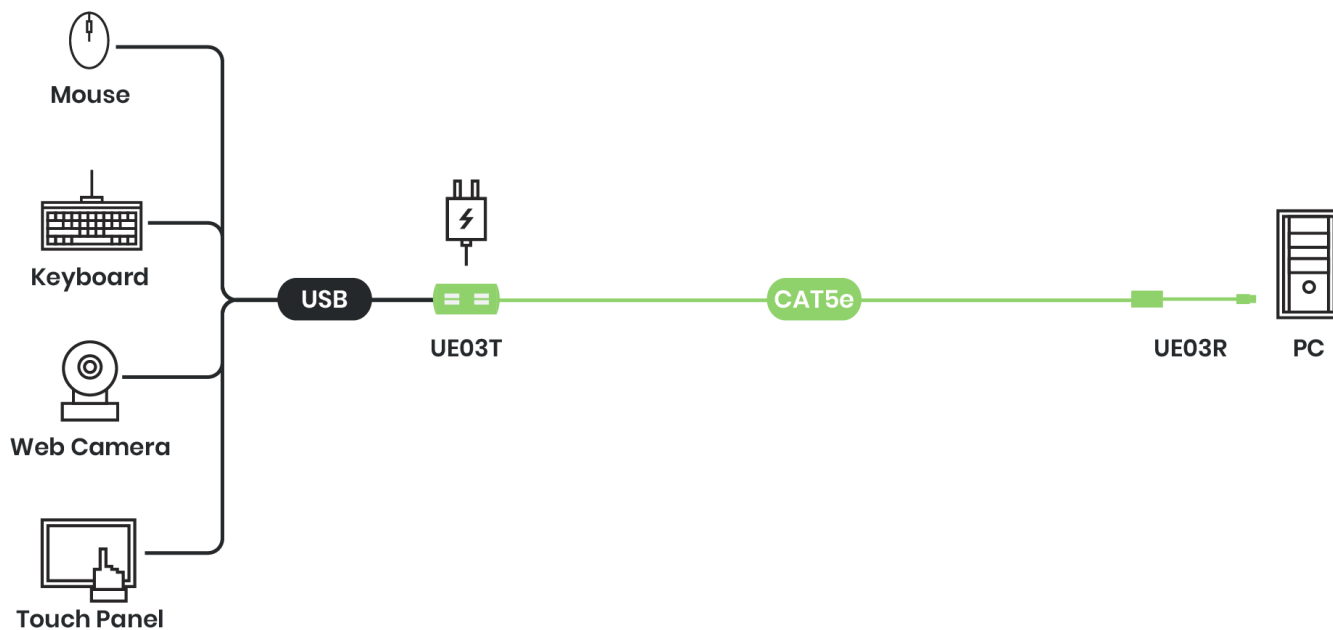
## USB 2.0 CAT5e Extender with 4 Port Hub 50M

## 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 over CAT5e.
- 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

## Panel View

UE03T Device Unit

UE03R Host Unit

## LED Status

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

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

## Transmission Chart

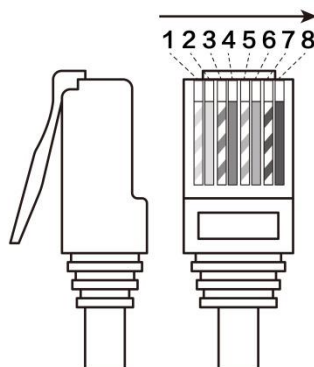| USB Standard | Data Rate | Distance | Cable |
|---|---|---|---|
| USB2.0 | 480Mbps | 50M | CAT5e/ CAT6 |
| USB1.1/ USB1.0 | 12/1.5Mbps | 100M | CAT5e/ CAT6 |

*The statistics are gotten from the testing result of using COMMSCOPE (57535-2) CAT5e cables.

## Cable

1. The transmission distance might decrease due to the quality of cable and installation.
2. It is recommend high quality Ethernet cable, such as CAT5e, CAT6. The thicker the cable diameter is, the less attenuation is achieved.
3. It is recommended to use solid conductor rather than copper-clad steel or stranded conductor cables which might decrease the transmission performance.
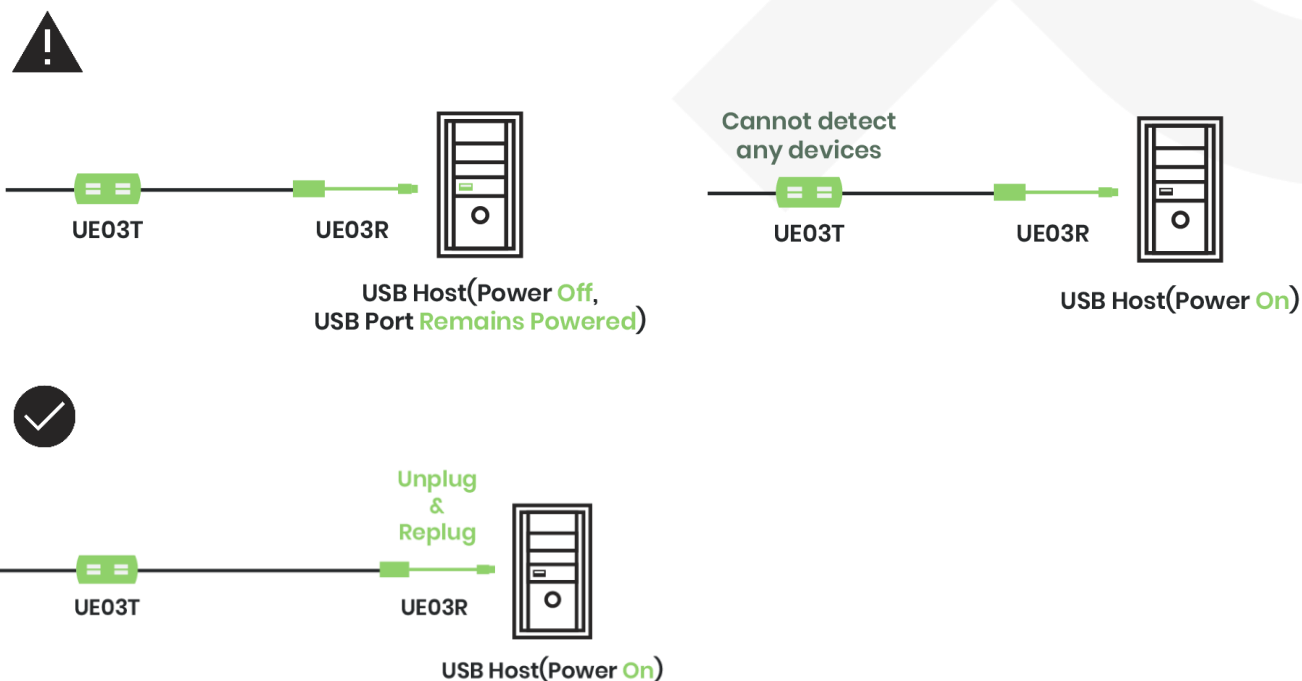
## Cable Define

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

1 2 3 4 5 6 7 8

## Caution

1. UE03 V2.0 is not compatible with V1.0
2. The cabling must be away from any equipment with electromagnetic wave, i.e.: microwave, radio equipment, high voltage.
3. UE03 device is not an Ethernet product, do not to connect any Ethernet or PoE devices to avoid any damages.
4. UE03 is not applicable for USB hosts which 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 un-plugging and re-plugging the USB port of UE03R or plugging to another USB host port (not powered after shut down) to solve the problem.

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)

3

## Package Include:

1 x UE03T
1 x UE03R
4 x Screw
4 x Screw Plug
1 x DC5V 2A

## Specification

| ITEM NO. | UE03T (Device Side) | UE03R (Host Side) |
|---|---|---|
| Support | | |
| Compliance | USB 2.0(High-speed), USB 1.1(Full-speed), USB1.0(Low-speed) | |
| Data Bandwidth | 480Mbps (USB2.0 High-speed)<br>12Mbps (USB1.1 Full-speed)<br>1.5Mbps (USB1.0 Low-speed) | |
| Max. Transmission Distance | 50M(USB2.0), 100M(USB1.1) | |
| Ports & Interfaces | | |
| Data Input | 4 x USB Type A (Female)<br>Max. 500mA output per port, total 1.7A for 4 USB devices | 1 x RJ45 |
| Data Output | 1 x RJ45 | 1 x USB Type A (Male) |
| Power Input | 1 x 5.5mm * 2.5mm DC Jack | |
| Power | | |
| Power Supply | DC 5V 2A Regulated | |
| Power Consumption | 1.5W | 1W |
| Ambient Temperature | | |
| Operation | 0 to 50℃ | |
| Storage | -20 to 85℃ | |
| Humidity | Up to 95% | |
| Physical Characteristics | | |
| Dimensions | 60 x 70 x 27mm | 25.4 x 25.4 x 240mm<br>190mm cable |
| Weight | 115g | 55g |

RoHS CE