# HALL
### TECHNOLOGIES

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## HT-ASTRO2-4

4-Port USB 2.0 Extender, 50m

### USER MANUAL

May 25, 2023

# Important Safety Instructions

1. Do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

2. Do not install or place this unit in a bookcase, built-in cabinet or in another confined space. Ensure the unit is well ventilated.

3. To prevent risk of electric shock or fire hazard due to overheating, do not obstruct the unit's ventilation openings with newspapers, tablecloths, curtains, and similar items.

4. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

5. Do not place sources of naked flames, such as lighted candles, on the unit.

6. Clean this apparatus only with dry cloth.

7. Unplug this apparatus during lightning storms or when unused for long periods of time.

8. Protect the power cord from being walked on or pinched particularly at plugs.

9. Only use attachments / accessories specified by the manufacturer.

10.   Refer all servicing to qualified service personnel.

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# Introduction

## OVERVIEW

The HT-ASTRO2-4 is a 4-port plug-and-play USB2.0 extender via a single Cat5e/Cat6 cable. This extender hub kit transmits data from a PC to as many as four USB 2.0 peripherals up to 50m/165ft. The transmitter is powered by the USB port from the PC and the 4-port receiver is powered locally to provide access to keyboard, mouse, printers, scanners, cameras, speakers, external storage media, digital signage or automated control systems.

The HT-ASTRO2-4 works with all major operating systems including Windows, MacOS and Linux with no need of driver installation and is also compatible with USB 1.1 and USB 3.0 peripherals.

## FEATURES

- Supports high-speed USB2.0 (up to 480Mbps) over Cat5e/Cat6 cables up to 50m/165ft.
- 4x USB peripherals connected to the receiver and supports an additional receiver to be connected to increase USB peripherals up to 7 (when fully loaded the max transmission distance will decrease to 40m/130ft).
- TX powered by the USB port, RX powered by lockable DC supply with 500mA to each USB device (receiver hub does not need power adapter when only keyboard and mouse is used)
- True plug-and-play with no driver installation required.
- Supports all major operating systems – Windows, MacOS and Linux
- Compatible with USB1.1 and USB3.0 peripherals.
- Hub receiver supports additional USB hub connection and up to 7 x USB peripherals connected. (When fully loaded, the max transmission distance may be shortened to 40m.)
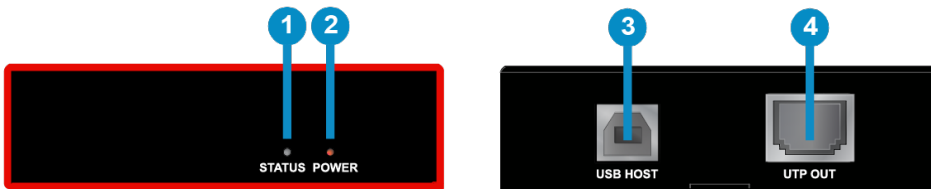
## Package Contents

**HT-ASTRO2-4**

- 1x Transmitter Unit
- 1x Receiver Unit
- 1x Power Adapter (DC 18V 0.5A)
- 4x Mounting Brackets (with screws)

# Connectors & Indicators

**HT-ASTRO2-4-TX**



| No. | Name | Description |
|-----|------|-------------|
| 1 | STATUS | • **On:** The device is working properly.<br>• **Off:** The device is not working properly. |
| 2 | POWER | • **On:** The device is powered on.<br>• **Off:** The device is powered off. |
| 3 | USB HOST | USB 2.0 Type-B for connection to host PC. |
| 4 | UTP OUT | RJ45 connector for Cat5e cable connected to the receiver. |

## HT-ASTRO2-4-RX



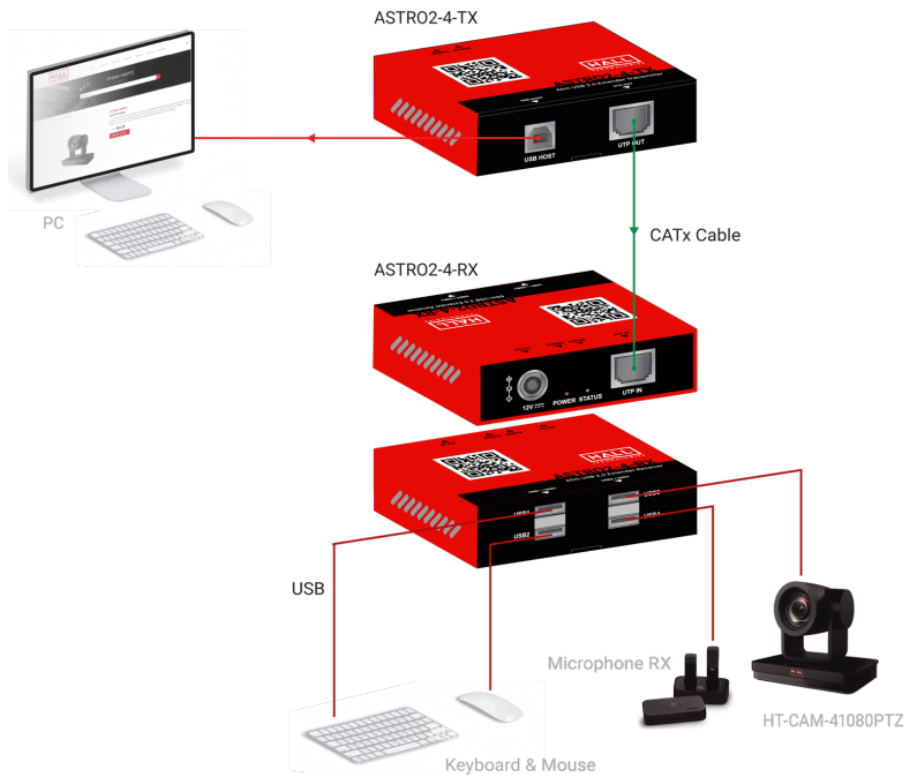| No. | Name | Description |
|-----|------|-------------|
| 1 | DC 12V | DC 12V/0.5A power supply connection for local power.<br>Note: adapter is not needed if only connecting one keyboard and one mouse. |
| 2 | POWER | • **On:** The device is powered on.<br>• **Off:** The device is powered off. |
| 3 | STATUS | • **On:** The device is working properly.<br>• **Off:** The device is not working properly. |
| 4 | UTP IN | RJ45 connector for Cat5e cable connected to the transmitter. |
| 5 | USB | USB 2.0 Type-A for peripheral devices. |

# Applications

A laptop or PC is connected to the USB Type-B interface on the HT-ASTRO2-4-TX and then transmitted over the category cable to the HT-ASTRO2-4-RX, where multiple USB peripheral devices are connected.

# Setup

## INSTALLATION

**Note:** Before installation, please ensure the devices are disconnected from the power source.

To install the device on a surface:

1. Secure the included L-bracket mounts to each side of the transmitter/receiver using the included screws.



2. The bottom part of the L-bracket will slightly raise the transmitter/receiver and will create a small gap between the device and the mounting surface.
3. Using the appropriate hardware (not included), mount the bottom of the L-brackets to the desired surface.

# Troubleshooting

| Problem Type | Problem | Options |
|---|---|---|
| **Control** | Mouse or other peripheral not seen at laptop | Confirm the connectors are properly seated on each device |
| | | Test the category cable to confirm proper pinout and no shorts in the cable |
| | | Confirm the distance between the transmitter and receiver does not exceed specifications (depending on the USB bandwidth) |

# Specifications

| Technical | |
|---|---|
| Input | 1 x USB Type-B |
| Output | 4 x USB Type-A |
| Input/Output Signal Type | USB 2.0 up to 480Mbps |
| Transmission Distance | USB 2.0: 50m (165ft) max, Cat5e UTP |

| General | |
|---|---|
| Operating Temperature | 0°C to 45°C (32°F to 113°F) |
| Storage Temperature | -20°C to 70°C (-4°F to 140°F) |
| Humidity | 10% to 90%, non-condensing |
| Power Consumption | 4.5W max |
| Power | 1x DC 12V/0.5A (included) |
| Dimensions | 55mm W x 16mm H x 45mm D (2.17" W x 0.63" H x 1.77" D) |
| Weight | 80g (0.176 lbs.) |

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