

# CA-USBAT & CA-USB100R

## USB over CAT5 Transmitter and Receiver Box

*Operation Manual*



**CA-USBAT & CA-USB100R**

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## • **Safety Precautions**

Please read all instructions before attempting to unpack or install or operate this equipment, and before connecting the power supply. Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through module openings or empty slots, as you may damage parts.
- Do not attach the power supply cabling to building surfaces.
- Do not allow anything to rest on the power cabling or allow it to be abused by persons walking on it.
- To protect the equipment from overheating, do not block the slots and openings in the module housing that provide ventilation.

## • **Revision History**

<b><i>Version No</i></b>	<b><i>Date</i></b>	<b><i>Summary of Change</i></b>
<b><i>V1</i></b>	<b><i>20091008</i></b>	<b><i>Preliminary Release</i></b>

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## **1. Introduction**

With USB and CAT5/6 connectivity becoming popular nowadays, the growing need for their flexibility has likewise risen in demand. The USB over CAT5 transmitter and receiver box solution developed for any household and/or commercial environment. This pair of devices allow any USB host device to send data within a 100-meters distance while offering expandability for up to 4 USB outputs to perform tasks. Its performance is similar to a connection with a linked host device on the side. In addition, this pair of devices can also save data from the output port devices or allow remote control through the display side even when there's 100 meters apart separating the devices. The USB over CAT5 transmitter and receiver box are the ideal choices to your USB extension needs.

## **2. Applications**

- USB Extention over CAT5/6 100m
- Cross ceiling and room control or remote
- Distance appliance control
- Host device information sharing and control

## **3. Package Contents**

- CA-USBAT x 1
- CA-USB100R x 1
- USB Cable x 1
- Adaptor x 2
- Operation Manual x 1

## **4. System Requirements**

Host device PC or laptop with CAT5/6 cables and appliance equipments with USB cables.

## **5. Features**

- Support USB 2.0 high-speed and USB 1.1 (full-speed, low-speed) devices
- Operate with USB 2.0 high speed host controllers and USB 1.1 classic hosts
- True plug and play without any driver installation required
- Supports all major Operating Systems including Windows<sup>®</sup>, MAC OS<sup>®</sup>, and Linux
- Display or control of the host device
- Save data to a separate room
- Tested CAT5 cable distance of up to 100 meters without latency
- Simple set up with easy to use
- LED indicators for easy viewing
- Each USB output port contains 500 mA of power
- Total transmission frequency 1 G Hz

## 6. Specifications

### Transmitter

Input Port 1 x USB (B type)

Output Port 1 x RJ45

### Receiver

Input Port 1 x RJ45

Output Ports 4 x USB (A type)

ESD Protection Human body model:  $\pm 10\text{kV}$  (air-gap discharge)  
 $\pm 6\text{kV}$  (contact discharge)

Power Supply 5V / 3.2A (US/EU standards, CE/FCC/UL certified)

Dimensions(mm) 102 (W) x 95 (D) x 25 (H)

Weight(g) 214 / Transmitter, 220 / Receiver

Chassis Material Aluminum

Silkscreen Color Silver

Operating Temperature  $0^{\circ}\text{C} \sim 40^{\circ}\text{C}$  /  $32^{\circ}\text{F} \sim 104^{\circ}\text{F}$

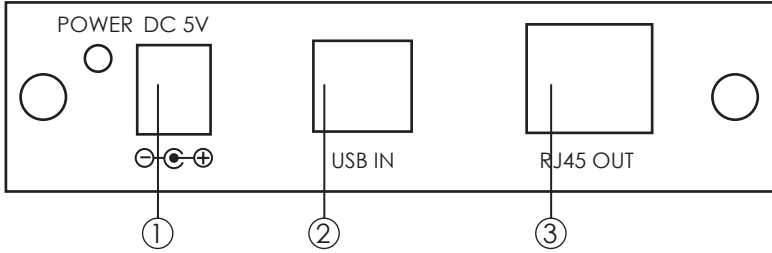
Storage Temperature  $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$  /  $-4^{\circ}\text{F} \sim 140^{\circ}\text{F}$

Power Consumption 5W / Transmitter, 12W / Receiver

Relative Humidity 20~90% RH (non condensing)

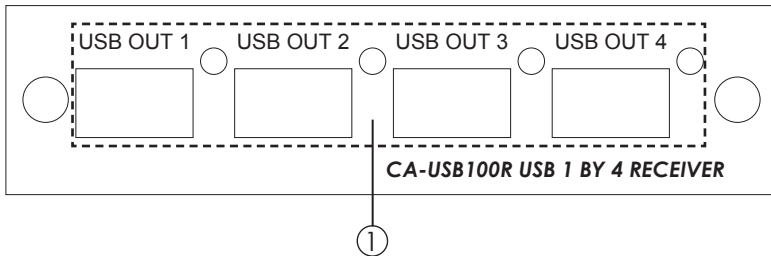
## 7. Operation Controls and Functions

### 7.1 Transmitter's Panel



- ① Power DC 5V Jack: Plug 5V 3.2A DC power supply into the unit and connect the adaptor to an AC wall outlet.
- ② USB IN: This slot is where you connect your PC or laptop with USB A to B type cable when sending signals or controlling the outputs of 4 USB devices.
- ③ RJ45: This slot is where you connect a CAT5/6 cable up to 100 meters long with the receiver side.

### 7.2 Receiver's Front Panel



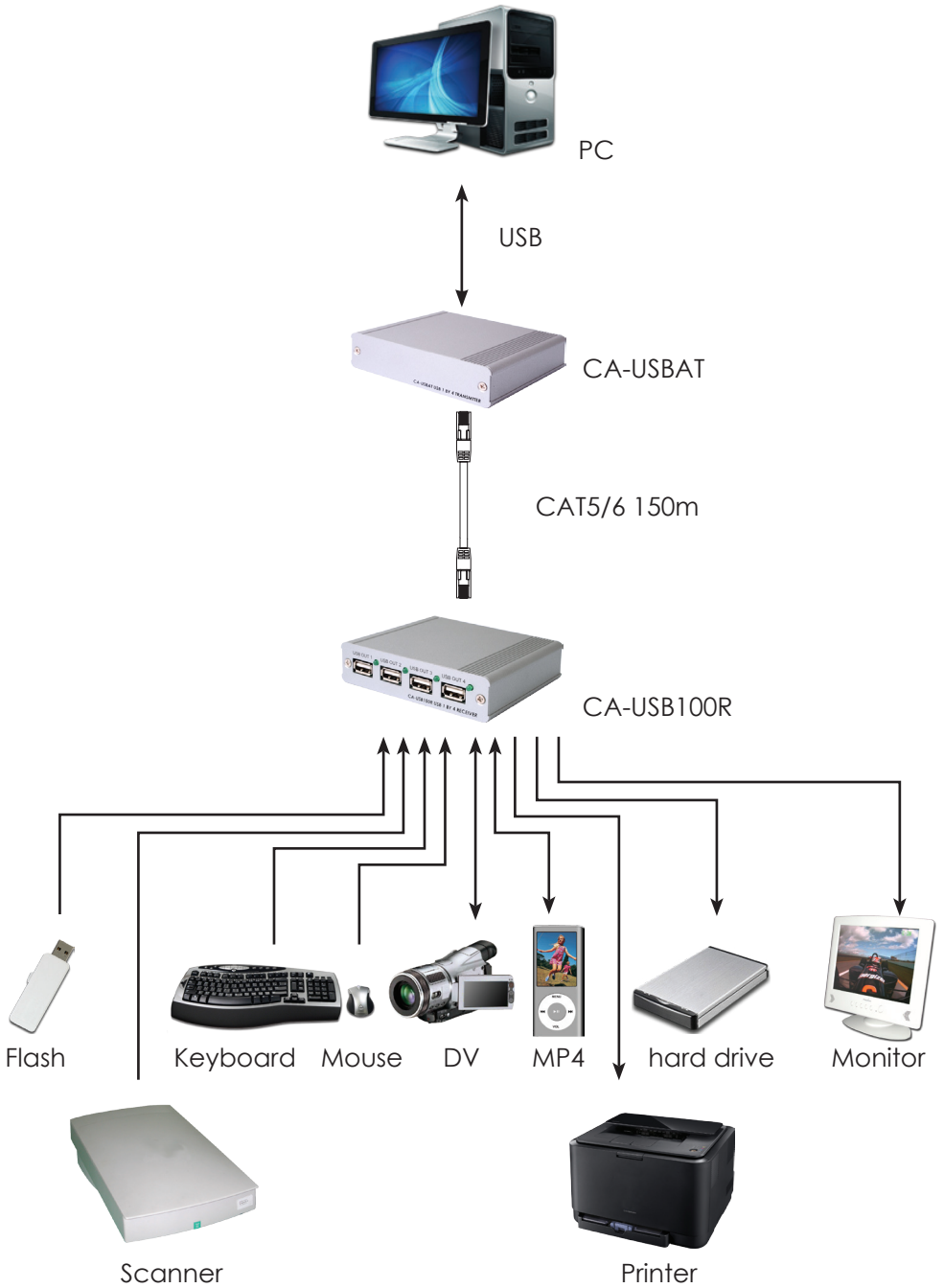
- ① USB OUT 1~4: These slots are where you connect your appliance equipments such as keyboard, mouse, printer, webcam or etc. with USB cables.

### 7.3 Receiver's Rear Panel



- ① Power DC 5V Jack: Plug 5V 3.2A DC power supply into the unit and connect the adaptor to an AC wall outlet.
- ② RJ45: This slot is where you connect a CAT5/6 cable up to 100 meters long with the transmitter side.

## 8. Connection and Installation





# Acronyms

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<b>Acronym</b>	<b>Complete Term</b>
CAT5/6	Category 5 / 6 Cable
ESD	Electrostatic Discharge
LED	Light-emitting Diode
RJ45	Registered Jack 45
USB	Universal Serial Bus







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