# 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*

| Version No | Date | Summary of Change |
|---|---|---|
| **V1** | **20091008** | **Preliminary Release** |

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## *1. Introduction*

With USB being the standard connection for consumer electronic products, there has long been a need for something to let us operate our many devices over long distances. The USB over CAT5/6 transmitter and receiver boxes developed for this purpose as they can operate in both the home and commercial markets. These devices allow any USB host to send data within a 100-meter distance while offering up to 4 USB outputs, giving this product the ability to act like a USB hub. In addition, this product can also save data from the output port devices or allow remote control through the display even when there's 100 meters separating the devices. The USB over CAT5/6 transmitter and receiver boxes are the ideal choice for your USB extension needs.

## *2. Applications*

- USB Extension over CAT5/6 100m
- Control devices from far away
- 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*

PC or laptop with CAT5/6 cables and devices with USB cables.

## *5. Features*

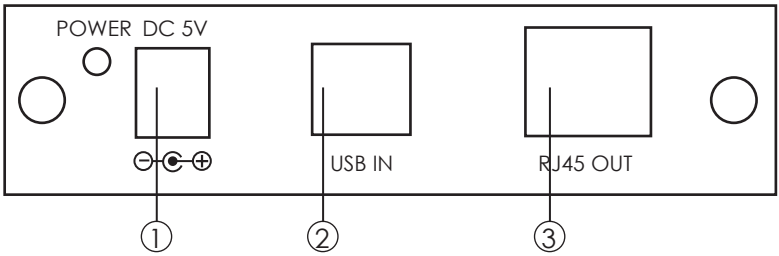
- Supports USB 2.0 high-speed and USB 1.1 (full-speed, low-speed) devices
- Operate with USB 2.0 high speed host controllers and USB 1.1 classic hosts
- True plug and play without the need to install drivers
- Supports all major operating systems including Windows®, MAC OS®, and Linux
- Display or control the host device
- CAT5 cable distance tested up to 100 meters without lag
- Simple set up and operation
- Each USB output port contains 500 mA of power
- Total transmission frequency 1G 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: ± 10kV (air-gap discharge)<br>± 6kV (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°C ~ 40°C / 32°F ~ 104°F |
| Storage Temperature | -20°C ~ 60°C / -4°F ~ 140°F |
| Power Consumption | 5W / Transmitter, 12W / Receiver |
| Relative Humidity | 20~90% RH (non condensing) |

## *7. Operation Controls and Functions*

### 7.1 Transmitter's Panel

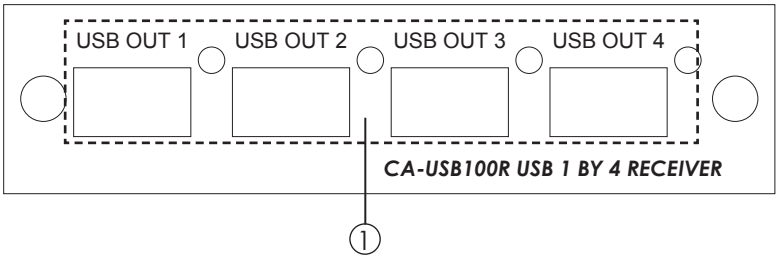



① Power DC 5V Jack: Plug 5V 3.2A DC power supply into the unit and connect the adaptor to an AC outlet.

② USB IN: This slot is where you connect your PC or laptop with a USB A to B type cable when sending signals or controlling the output of four USB devices.

③ RJ45: This slot is where you connect a CAT5/6 cable, with the receiver unit, up to 100 meters away.

### 7.2 Receiver's Front Panel



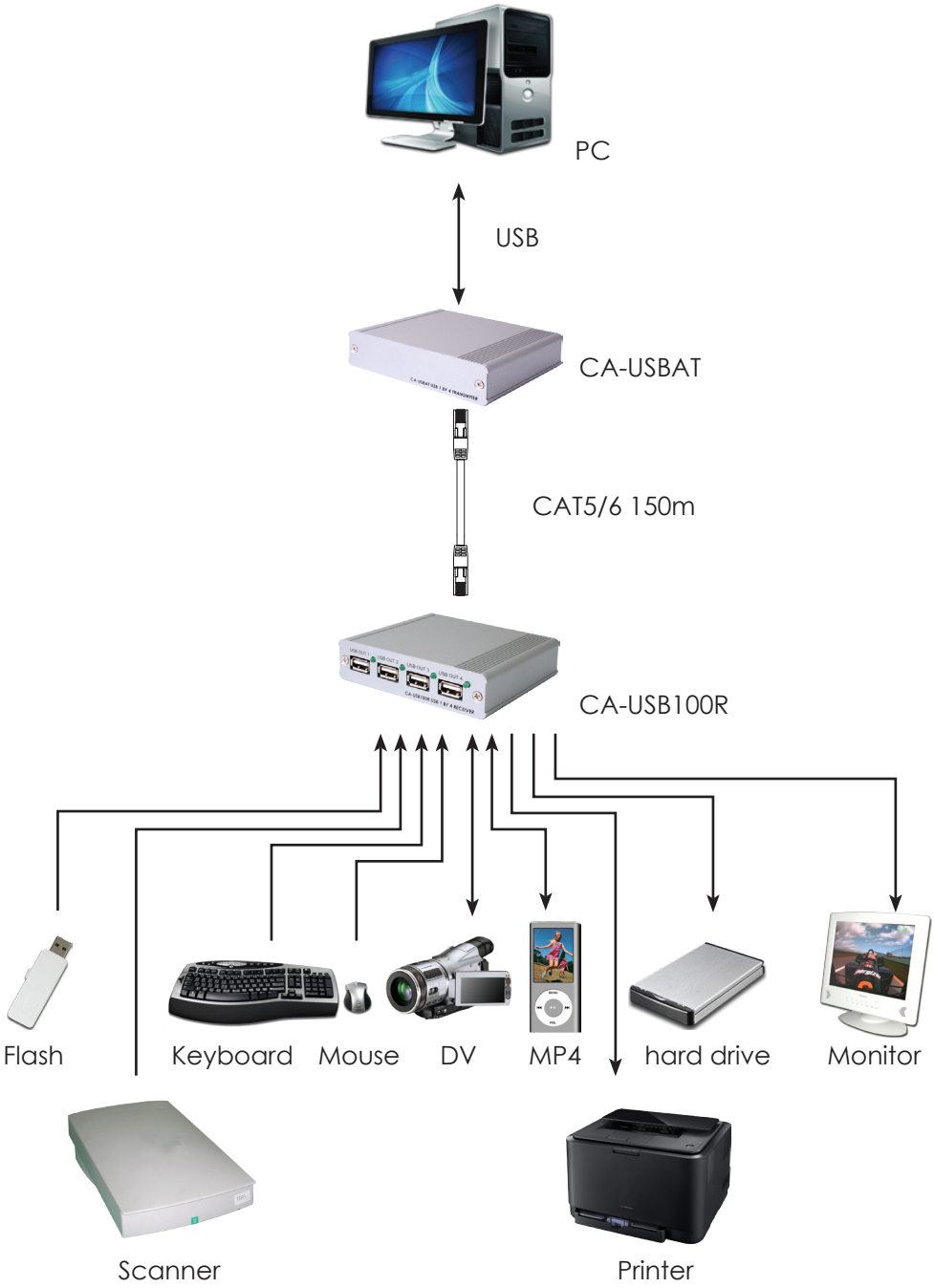

① USB OUT 1~4: These slots are where you connect your devices, such as keyboards, mouse, printers, webcams or etc. with USB cables.

### 7.3 Receiver's Rear Panel

① Power DC 5V Jack: Plug the 5V DC power supply into the unit and connect the adaptor to an AC outlet.

② RJ45: This slot is where you connect a CAT5/6 cable, with the transmitter unit, up to 100 meters away.

## *8. Connection and Installation*



# Acronyms

A

| Acronym | Complete Term |
| --- | --- |
| 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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