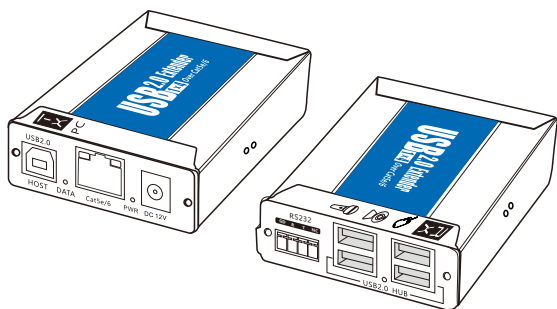


HSV2615 PoC USB 2.0 * 4 + RS 232 K/M延长器

使用手册



一. 产品简介

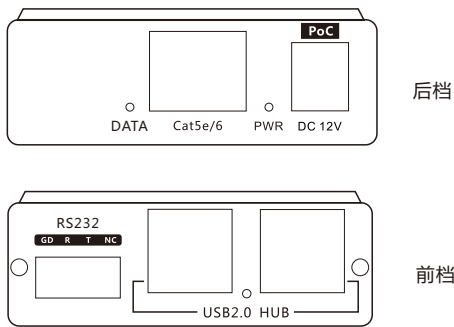
HST2615是四路USB2.0延长器，加1路RS-232串口延长的产品。本产品可通过网线，将鼠标、键盘和RS-232串口延长至80米远处使用；还可以将USB摄像头、麦克风、打印机、U盘、移动硬盘等带有USB2.0接口的设备延长到40~60米(Cat5e/6网线)使用；该产品实现解决了USB 2.0 功能设备和RS-232串口控制设备的远距离使用场景。本产品任意一边12V电源供电两边工作,从而满足客户各种组合功能的需求。

二. 主要特性

- ▶ 4路 USB 2.0延长
- ▶ RS-232串口延长与USB2.0功能同时延长的最远距离可达80米
- ▶ 任意一边12V电源供电,两边工作

1

接收端



标识	类型	说明
DC 12V	输入接口	12V1A 电源输入(单边供电)
PWR	电源指示灯	上电常亮
Cat5e/6	输入输出接口	连接网线，传输信号
USB 2.0 HUB	USB 2.0 接口	全速USB 接口 支持U盘、硬盘、摄像头、声卡、麦克风、USB触控屏等各种USB设备
RS232	串口接口	一端接主控RS232接口，另一端接受控设备的RS232接口串口延长的功能

与TX端配套使用时,RX端4个USB 2.0接口接入情况:
接入3个U盘+1个移动硬盘可延长40米(UTP带屏蔽CAT5E /CAT6网线),
接入2套键鼠延长时最远可延长致80米(带屏蔽网层的Cat5e /Cat6网线),
以上USB延长距离均与网线材质有关(网线单芯阻值小于8欧/100米)
Cat6网线:40米 衰减不大于-16dB ; 60米 衰减不大于-25dB ; 80米 衰减不大于-30dB ;

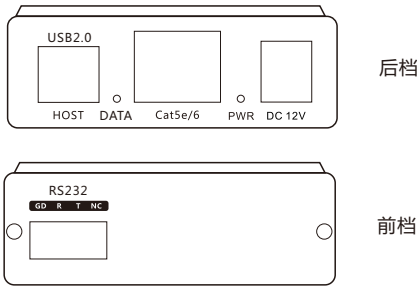
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三. 技术参数

参数	说明		
电源	单边DC 12V1A供电(有存储设备接入时建议RX端供电或使用12V2A电源)		
单边供电最大功耗	小于5W (1对延长器接有存储设备时的总功耗)		
USB接口	USB 2.0 * 4	RS232串口	波特率 : 1200~256000 串口半双工
网线接口	UTP/STP: CAT 6, CAT 5e		
最大延长距离	80米(K/M)		
工作模式	点对点延长 远距离操控		
产品尺寸	125mm * 84mm * 25mm		
工作温度	-5°C - +75°C		
工作湿度	5% ~ 90% RH(非凝固)		
质保	1年免费保修，终生维护		

四. 接口说明

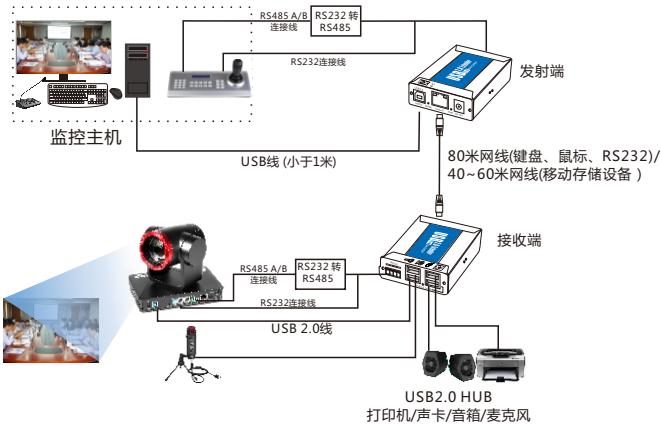
发射端



标识	类型	说明
DC 12V	输入接口	12V1A 电源输入(单边供电)
PWR	电源指示灯	上电常亮
Cat5e/6	输入输出接口	连接网线，传输信号
HOST-USB	USB 接口	电脑主机USB 接口 以及 连接指示灯
RS232	串口接口	一端接主控RS232接口，另一端接受控设备的RS232接口串口延长的功能

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五. 点对点延长连接示意图



六 故障排除

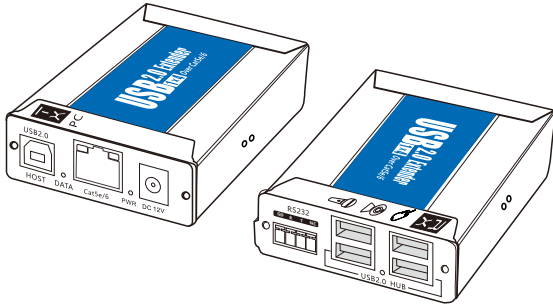
TX端：DATA灯正常工作与RX端DATA灯状态同步快闪或常亮；
(不接入主机信源时为慢闪，呼吸状态)
RX端：DATA灯正常工作与TX端DATA灯状态同步快闪或常亮；
(TX端未接入主机信源时为慢闪，呼吸状态)

注意：1. 为保证使用良好接入主机板载USB2.0的接口，TX端接入主机的 USB 线不应超过1米
2. RX端接有存储设备时，请在RX端供电。

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HST2614 PoC 4 Port USB 2.0 + Rs232 K/M Extender

Manual



1. Introduction

HST2614 is a USB2.0 extender, Support RS-232 function. This product can extend the mouse and keyboard to a distance of 80 meters through the network cable; it can be used with USB cameras, microphones, printers, U disks, mobile hard drives, etc. with USB2.0 interfaces. The device is extended to 40~60 meters (Cat5e/6 network cable); this product solves the long-distance use scenario of USB 2.0 functional devices.

HST2615 support PoC function, only need to use one 12V/1A power adapter connected on Tx or Rx side. This function can help customer to make installation more convenient and save lots of cost.

2. Features

- ▶ 4 ports USB 2.0 Extension
- ▶ USB2.0 function extends the longest distance up to 80 meters
- ▶ PoC: 1PCS of 12V/1A DC adapter supply 2 devices

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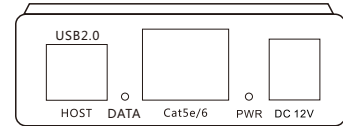
3 Specification

Item	Description
Power	DC 12V 1A PoC(recommended to supply power at the RX end when storage devices are connected)
Consumption	<5W(Total power consumption when a pair of extenders are connected to storage devices)
USB interface	USB 2.0 HUB
Cable interface	Cat6, Cat5e
Maximum extension distance	80 meters (K/M); mobile hard disk/U disk (60 meters)60meter
Working Mode	Point to Point extension, Long distance control
Size	125mm * 84mm * 25mm
Working Temperature	-5°C ~ +75°C
Working Humidity	5% ~ 90% RH(Non-condensing)

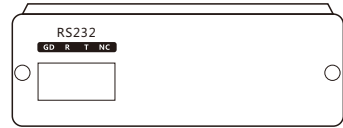
4 Hardware Description

Transmitter:

Back



Front

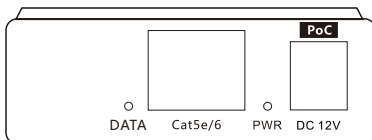


ID	Type	Description
DC 12V	Power Input	Power supply 12V 1A DC (PoC)
PWR	LED	Light On when device power on
Cat5e/6	Input/Output	Connect to UTP cable
USB2.0	HOST USB Interface	Computer host USB interface and connection indicator
RS232	RS232 interface	TX connected to the main control RS232 interface, and RX is connected to the RS232 interface of the control device

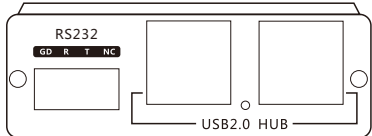
2

Receiver:

Back



Front



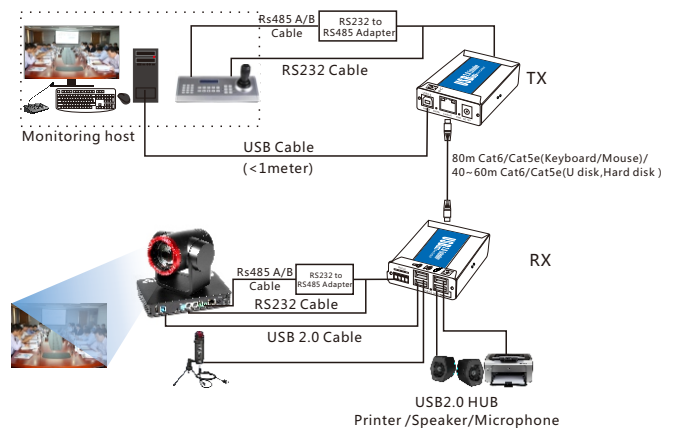
ID	Type	Description
DC 12V	INPUT	12V 1A DC adapter supply
PWR	LED	Light on when device power on
Cat5e/6	Input/Output	connect to UTP cable
USB 2.0 HUB	USB 2.0 Interface	Full-speed USB interface supports U disk. Hard disk, camera, sound card, microphone USB touch screen and other USB devices
RS232	RS232 Interface	TX connected to the main control RS232 interface, and RX is connected to the RS232 interface of the control device

Remarks:

When used with the TX side, the 4 USB 2.0 ports on the RX side are connected:
Connecting 3 U disks + 1 mobile hard disk can extend 40 meters (Cat5e/Cat6 network cable with shielded network layer),
When connecting 2 sets of keyboard and mouse extension, it can extend up to 80 meters (Cat5e/Cat6 network cable with shielded mesh layer),
The above USB extension distances are all related to the material of the network cable:
Cat6 network cable: 40 meters, attenuation not greater than -16dB; 60 meters, attenuation not greater than -25dB; 80 meters, attenuation not greater than -30dB;

3

5. Point to point KVM Extension



6. Troubleshooting

- TX end:** The DATA light works normally and flashes or stays on in sync with the state of the RX light on the DATA light.
(Slow flash when not connected to host source, breathing status)
- RX side:** The DATA light works normally and flashes or stays on in sync with the state of the DATA light on the TX side. (When the TX end is not connected to the host source, it blinks slowly, breathing status) LED light device access indicator, always on when any external device is connected to any USB port;
- Note:**
1. In order to ensure good use of the USB2.0 interface on the host, The USB cable connecting the Tx end to the host should not exceed 1 meter
 2. When a storage device is connected to the RX end, please supply power at the RX end.

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