



ADDERLink™ XD612 and XD614

User Guide





ADDERLink™ XD612和XD614

用户指南



连接解决
方案专家



扩展器
解决方案

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Introduction



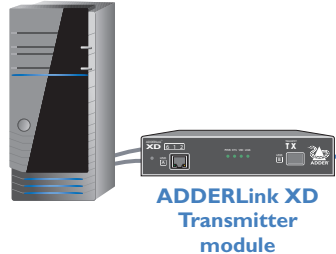
WELCOME

Thank you for choosing the ADDERLink® XD612 (dual head) or XD614 (quad head) extender modules. Using either fiber optic or CATx links, these compact modules allow you to extend KVM connections over long distances from a host computer (see *Transmission distances when using fiber* on the right).

The high-grade screening employed within the metal cased enclosures, particularly when combined with the immunity from interference of the fiber optic links.

AdderLink XD61x extender modules provide support for:

- High quality single-, dual-, triple- or quad- digital video
- Video resolutions up to 4K 4096 x 2160 @60Hz (XD614 models),
- USB keyboard and mouse plus two other USB devices (up to USB 2.0),
- An RS232 serial device at speeds up to 115200 baud,
- Mono microphone,
- Stereo speakers, digital stereo audio out
- Line-level audio in/out connections.



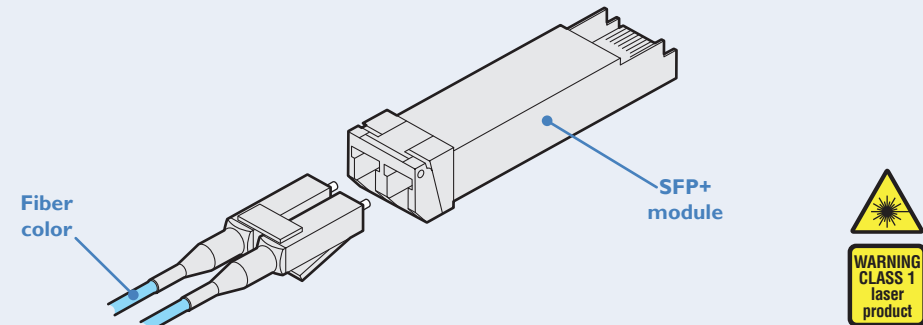
The ADDERLink extender modules are totally transparent in operation, leaving you free to use your computer as though you're still sitting next to it.

Fiber optic link
(up to 4km)
OR
CATx link
(CAT5e up to 50m)
(CAT6 up to 100m)

Transmission distances when using fiber

The choice of fiber used with the ADDERLink XD61x modules has a considerable effect on the distance over which operation can take place. Using multi-mode fiber you can achieve distances up to 400m (1,312 feet); whereas, by using single-mode fiber (and accompanying SFP+ modules), the achievable maximum distance is increased to 4km (2.5 miles):

Distance	Fiber type	Fiber color code	SFP+ module
70m	OM1 (TIA-492AAAA)	Orange	SFP-MM-LC-10G
150m	OM2 (TIA-492AAAB)	Orange	SFP-MM-LC-10G
380m	OM3 (TIA-492AAAC)	Aqua	SFP-MM-LC-10G
400m	OM4 (TIA-492AAAC)	Aqua	SFP-MM-LC-10G
4km	OS1 (TIA-492C000)	Yellow	SFP-SM-LC-10G
	OS2 (TIA-492E000)	Yellow	SFP-SM-LC-10G



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欢迎

感谢您选择ADDERLink®XD612（双头）或XD614（四头）扩展器模块。使用光纤或CATx链接，这些紧凑的模块允许您从主机计算机将KVM连接延伸到较远的距离（请参阅右侧*使用光纤时的传输距离*）。

金属外壳内采用的高级筛选，特别是与光纤链路的抗干扰性相结合时。

AdderLink XD61x扩展器模块提供对以下功能的支持：

- 高质量的单、双、三或四数字视频
- 视频分辨率高达4K 4096 x 2160 @60Hz (XD614型号)，
- USB键盘和鼠标，外加另外两个USB设备（最高支持USB 2.0），
- RS232串行设备，速度高达115200波特，
- 单麦克风，
- 立体声扬声器，数字立体声音频输出
- 行级音频输入/输出连接。



ADDERLink扩展器模块在操作上是完全透明的，让您像坐在电脑旁边一样使用您的计算机。

光纤链路（最长4 km）或 CATx 链路（CAT5e，最长50 m）
(CAT6，最高达100米)



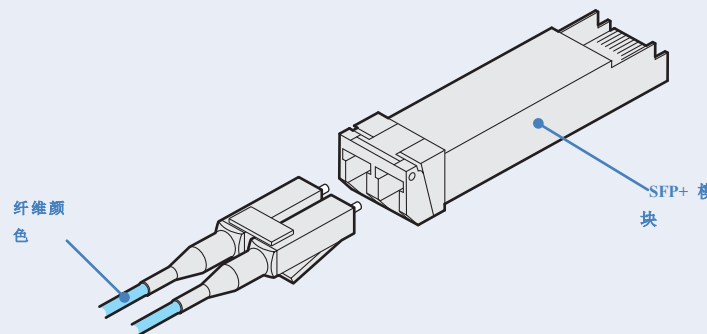
最多4个DisplayPort®视频显示器（请参阅第4页）四个USB设备一个RS232串行设备立体声扬声器和麦克风

使用光纤时的传输距离

选择与ADDERLink XD61x模块配合使用的光纤类型，对设备的传输距离有着重要影响。采用多模光纤时，传输距离可达400米(1,312英尺)；而使用单模光纤（搭配SFP+模块）时，最大传输距离则可提升至4公里(2.5

英里）：

距离	纤维类型	纤维颜色代码	SFP+模块
70米	OM1 (TIA-492AAAA)	橘子	SFP-MM-LC-10G
150m	OM2 (TIA-492AAAB)	橙色	SFP-MM-LC-10G
380m	OM3 (TIA-492AAAC)	Aqua Aqua	SFP-MM-LC-10G
400m	OM4 (TIA-492AAAC)	黄色	SFP-MM-LC-10G
4公里	OS1 (TIA-492C000)	黄色的	SFP-SM-LC-10G
	OS2 (TIA-492E000)	黄色的	SFP-SM-LC-10G



CATx Link Cable Recommendations

Due to the high data bandwidth required between the transmitter and receiver, ADDERLink XD600 series modules are highly dependent upon good quality CATx cable links.Video performance is particularly reliant on high speed communication channels.

The main factors that affect link quality are:

- The length and type of CATx cable used,
- The number, length and type of intermediate patch connections,
- The quality of the cable terminations.

CAT6 is recommended for CATx extensions, with a gauge (thickness) of at least 23AWG. Up to 5Gb/s of data may be transmitted, so the cable must be rated for at least 5GBase-T or 250MHz.

Patch links affect performance. For each additional break/patch within a run, the overall maximum extension is likely to be reduced.The amount will be dependent upon the nature of the patch panel. For best results, patch cables should be of type CAT6 and be less than 2 meters in length.

Use of CAT7 cables is not recommended.There is no associated ANSI/TIA specification for CAT7 resulting in a wide range of cable quality available, particularly with regard to shield grounding.

CATx Link电缆建议

由于发送器和接收器之间需要较高的数据带宽，所以ADDERLink XD600系列模块高度依赖于高质量的CATx电缆链路。视频性能尤其依赖于高速通信通道。影响链路质量的主要因素包括：

- 所用CATx电缆的长度和类型，
- 中间补丁连接的数量、长度和类型，
- 电缆接头的质量。

推荐使用CAT6进行CATx扩展，其规格（厚度）至少为23AWG。数据传输速率可达5Gb/s，因此电缆额定值必须至少为5GBase-T或250MHz。

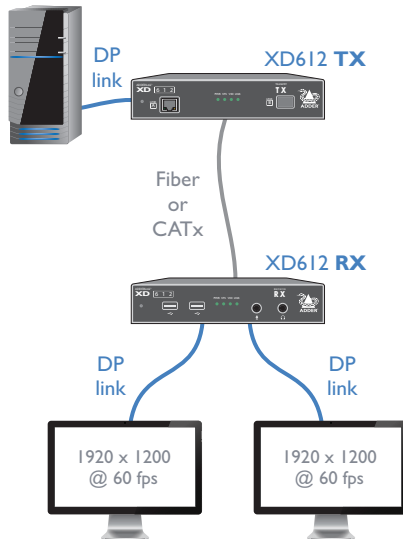
跳线连接会影响性能。在一次运行中，每增加一个断点/跳线，整体最大延伸长度可能会减少。具体数量取决于跳线面板的性质。为获得最佳效果，跳线应采用CAT6型且长度小于2米。

不建议使用CAT7电缆。没有与CAT7相关的ANSI/TIA规范，因此电缆质量范围很大，特别是关于屏蔽接地。

MULTI-DISPLAY SUPPORT USING MST

The ADDERLink XD612 and 614 models support the MST (Multi-Stream Transport) protocol, which was introduced in the DisplayPort 1.2 standard. MST allows feeds for multiple video displays to be fed along a single cable. The XD612 and XD614 models use this feature in different ways.

ADDERLink XD612 models use a single DisplayPort link to accept up to two video feeds from the host computer. This combined MST stream is then transferred to the receiver where an internal MST hub separates the two streams and presents them individually at the two video output ports.



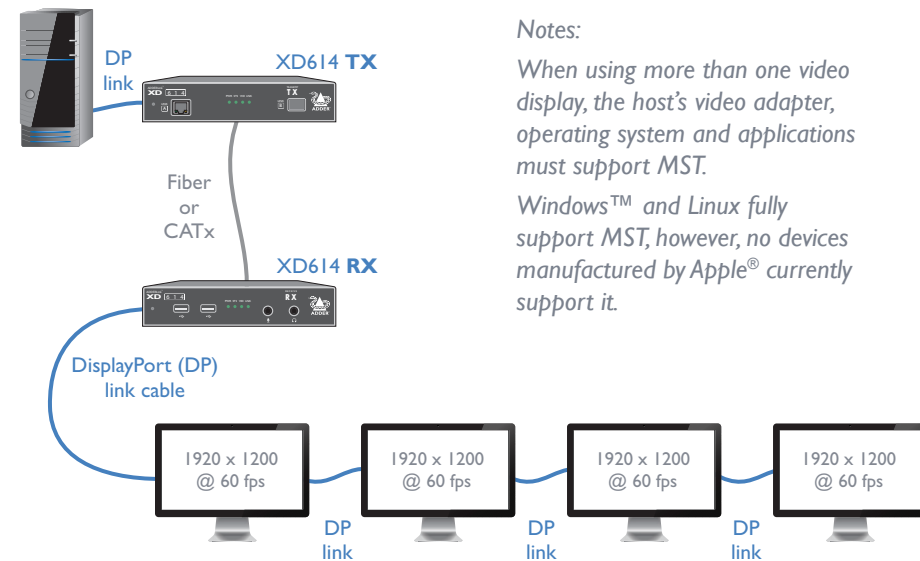
Notes:

When using more than one video display, the host's video adapter, operating system and applications must all support MST.

Windows™ and Linux fully support MST, however, no devices manufactured by Apple® currently support it.

The video displays do not need to be MST-compliant and no hub is required.

ADDERLink XD614 models use a single DisplayPort link to accept up to four video streams from the host computer. This combined MST stream is then transferred to the receiver, where you can connect multiple video displays in a daisy-chain (or via a third-party MST hub) from the primary video output port:



Notes:

When using more than one video display, the host's video adapter, operating system and applications must support MST.

Windows™ and Linux fully support MST, however, no devices manufactured by Apple® currently support it.

All but the final video display in the chain on the XD614 receiver must specifically support MST on DisplayPort 1.2 or later. These displays will each have a DP output port to allow the daisy-chain link to continue to the next. The last video display in the chain does not need to support MST as it is the final destination for the video signals.

Note: Check that the video card and display specifications support the required number of daisy-chained displays.

Support for multiple non-MST video displays on XD614

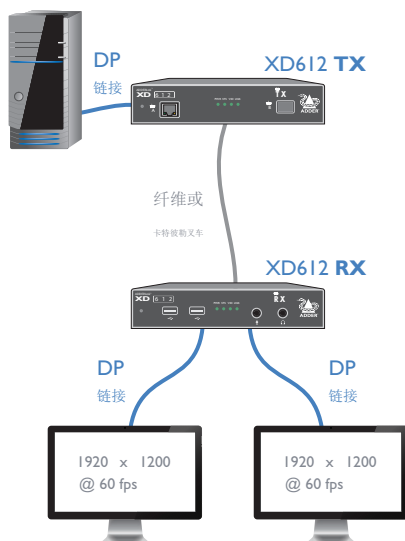
If you are using multiple video displays with the XD614 receiver that do not support MST, there are a couple of options:

- You can optionally enable an internal hub within the XD614 receiver which will allow non-MST video displays to be connected to the two output ports so that they can use the first and second video streams respectively. See page 20.
- You can optionally use an external MST hub, which will receive the combined DisplayPort signal from the first video port on the receiver and split out separate links to the standard video displays (see next page).

使用MST实现多显示器支持

ADDERLink XD612和614型号支持MST（多流传输）协议，该协议在DisplayPort 1.2标准中引入。MST允许沿单根电缆为多个视频显示器提供馈送。XD612和XD614型号以不同的方式使用此功能。

ADDERLink XD612型号使用单个DisplayPort链路最多可从主机接收两个视频信号。然后，将组合的MST流传输到接收器中，其中内置的MST集线器将两个流分开，并在两个视频输出端口上单独呈现它们。



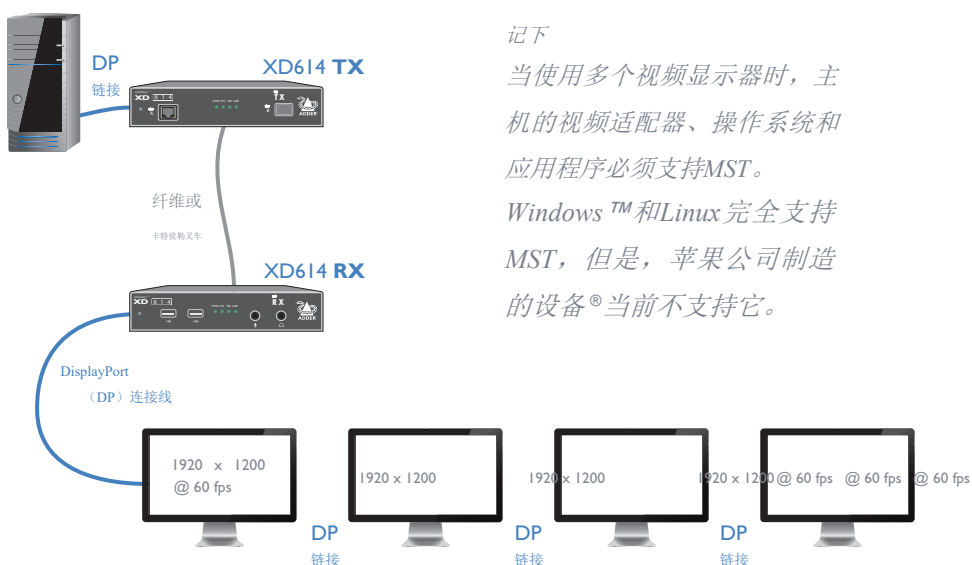
视频显示器不需要符合MST，也不需要集线器。

记下

当使用多个视频显示器时，主机的视频适配器、操作系统和应用程序都必须支持MST。

Windows™和Linux完全支持MST，但是，苹果公司制造的设备®当前不支持它。

ADDERLink XD614型号使用单个DisplayPort链路最多可从主机接收四个视频流。然后，将组合的MST流传输到接收器，在接收器中，您可以从主视频输出端口以菊花链方式（或通过第三方MST集线器）连接多个视频显示器：



记下

当使用多个视频显示器时，主机的视频适配器、操作系统和应用程序都必须支持MST。

Windows™和Linux完全支持MST，但是，苹果公司制造的设备®当前不支持它。

除了XD614接收器上链式显示的最后一个视频显示器外，所有其他显示器必须专门支持DisplayPort 1.2或更高版本的MST。这些显示器将各自有一个DP输出端口，以便菊花链链接可以继续延伸到下一个显示器。链式显示中的最后一个视频显示器不需要支持MST，因为它是视频信号的最终目的地。

注：请检查视频卡和显示器规格是否支持所需的串联显示器数量。

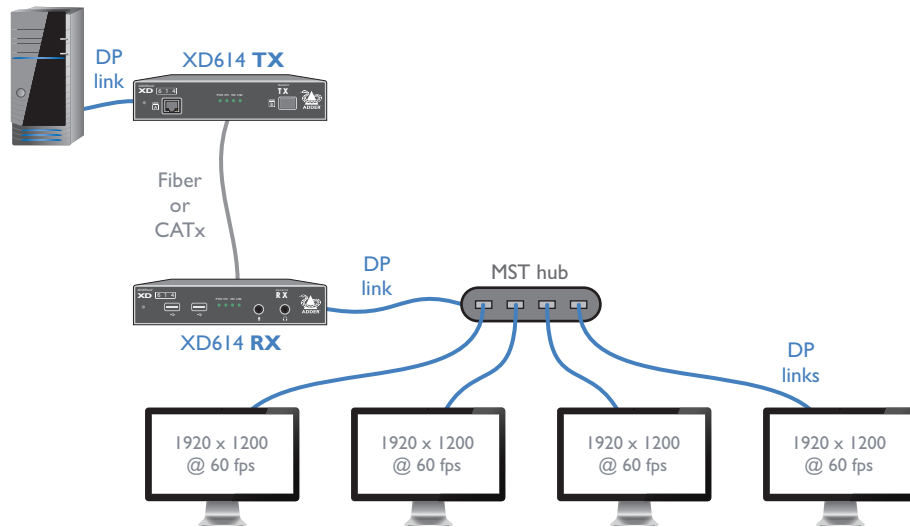
支持XD614上的多个非MST视频显示器

如果使用不支持MST的多个视频显示器与XD614接收器一起工作，则有以下几种选择：

- 可选地，可在XD614接收器中启用一个内部集线器，这将允许非MST视频显示器连接到两个输出端口，以便它们可以分别使用第一和第二视频流。请参阅第20页。
- 可选择使用外部MST集线器，该集线器将接收来自接收器上第一个视频端口的组合DisplayPort信号，并将单独的链路分配给标准视频显示器（请参见下一页）。

Support for multiple non-MST video displays on XD614 (cont.)

An external MST hub can receive the combined DisplayPort MST signal from the first video port on the receiver and split out separate links to standard video displays (the second video output port on the receiver will be disabled):

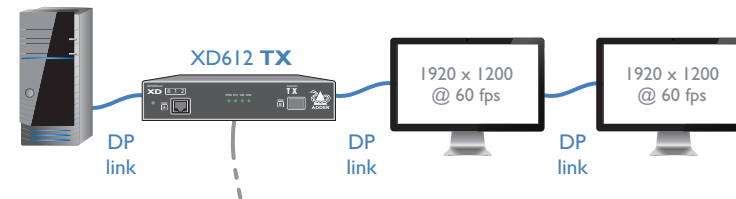


Adder does not supply MST hubs, but can recommend the following models:

- Startech™ MST Hub 1x4 (MSTDP124DP)
- Gofanco™ Prophecy MST hub 1x4 (PRO-MSTDP4DP)

Multiple displays at the local console

ADDERLink XD612: You can optionally connect up to two video displays to the second video port of the transmitter to view the output locally:



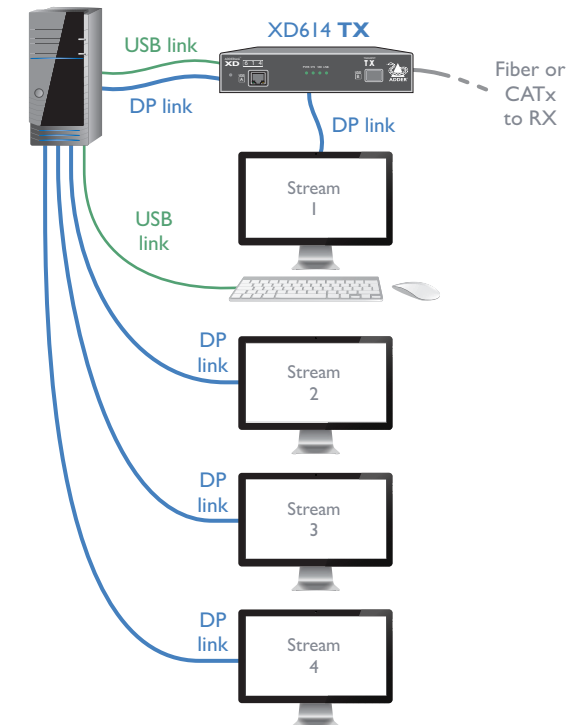
You have several connection options:

- For a two display arrangement, connect an MST-compliant video display with another display (MST-compliant or not) in a daisy-chain arrangement.
- If using two non MST-compliant video displays, connect one to the TX video output port and the other directly to the host computer's video adapter; similar to the upper part of the example shown below.
- If only a single local display is required, a non-MST display can be connected directly to the video output port.

ADDERLink XD614 supports just one console video display at the transmitter. If other local console video displays are required, then streams 2 to 4 can be accessed directly from the host computer's video adapter.

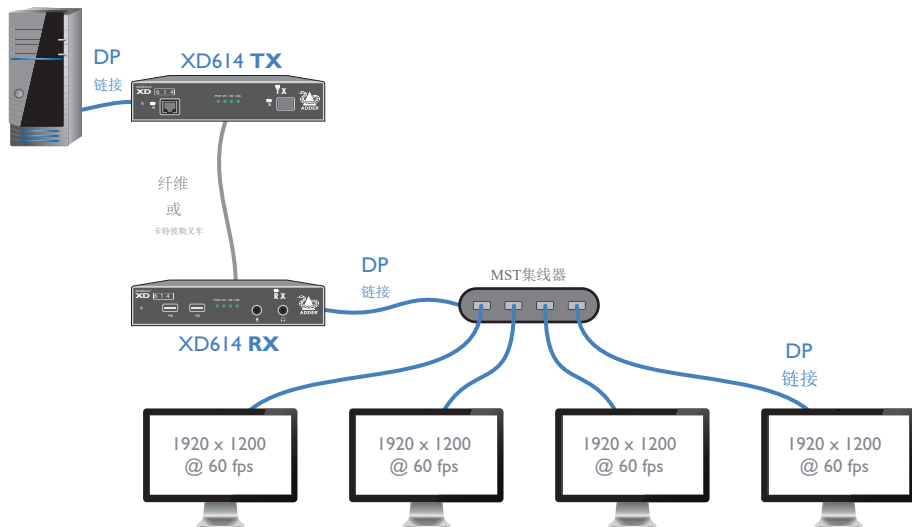
On both types of transmitters, there are no console USB outlets, so if a local keyboard and/or mouse are required, they need to be connected directly to the host computer.

Note: The display connected to the local console should support at least equal video resolution of that connected at the RX, otherwise no video will be displayed.



支持XD614上的多个非MST视频显示器（续）

外部MST集线器可以接收来自接收器上第一个视频端口的组合DisplayPort MST信号，并将单独的链路分配给标准视频显示器（接收器上的第二个视频输出端口将被禁用）：

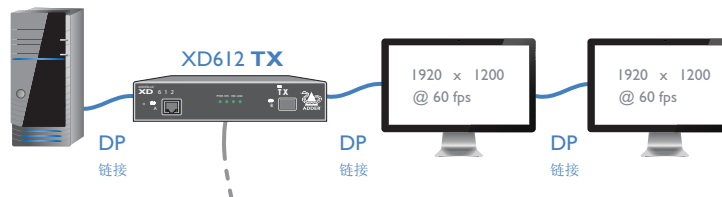


Adder不提供MST集线器，但可以推荐以下型号：

- Startech™MST Hub 1x4（MSTD124DP）
- Gofanco™Prophecy MST集线器1x4（PRO-MSTD124DP）

本地控制台上的多个显示器

ADDERLink XD612：可选地将最多两个视频显示器连接至发送器的第二个视频端口，以便在本地查看输出：



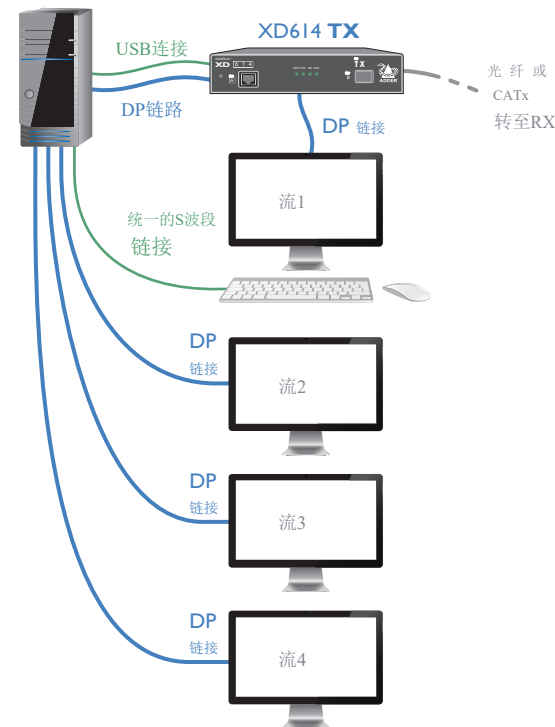
您有几种连接选项：

- 对于双显示器配置，将符合MST的视频显示器与另一台显示器（符合或不符合MST）以菊花链方式连接。
- 如果使用两个不符合MST规范的视频显示器，请将一个连接到TX视频输出端口，另一个直接连接到主机计算机的视频适配器，如下例的上半部分所示。
- 如果只需要一个本地显示器，则非MST显示器可直接连接到视频输出端口。

在发送端，**ADDERLink XD614**只支持一个控制台视频显示。如果需要其他本地控制台视频显示器，则可直接从主机的视频适配器访问流2到流4。

这两种类型的发射器都没有控制台USB接口，因此如果需要本地键盘和/或鼠标，则需要直接将它们连接到主机。

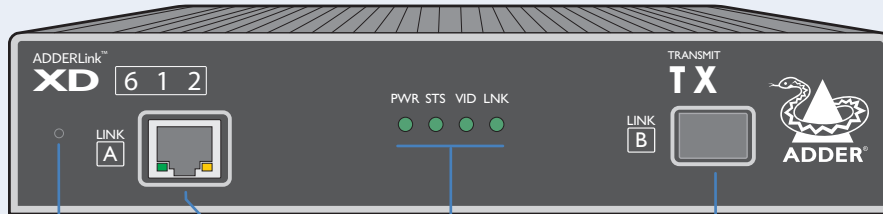
注：连接到本地控制台的显示器应至少支持与RX连接的显示器相同的视频分辨率，否则将不会显示视频。



ADDERLINK XD612 FEATURES

The transmitter and receiver modules are contained within slimline metal casings that measure just 186 x 152 x 40mm.

Transmitter module



Recessed reset button

See [Resetting a module](#).

CATx port

Provides an alternative link method to fiber. See [CATx link](#).

Status indicators

These provide visual confirmation of various system functions. See [Indicators](#) for further details.

SFP+ slot

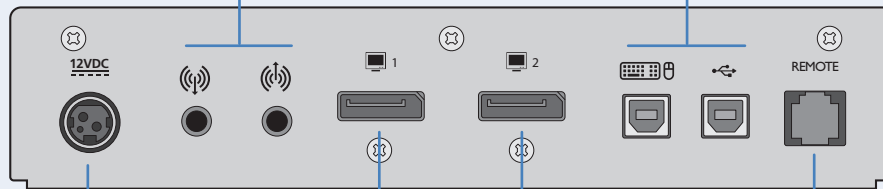
Accommodates a fiber optic SFP+ module of your choice. See [Fiber optic link](#) for further details.

Audio ports

Connects to the audio output/input ports of your computer. See [Transmitter audio links](#) for further details.

USB ports

Connect to USB ports on your computer. The outer-most port also supports USB audio streaming. See [Transmitter USB links](#) for further details.



Power input

See [Transmitter power connection](#) for further details.

Video input port

Connect to the DisplayPort connector of your computer. See [Transmitter video link](#) for further details.

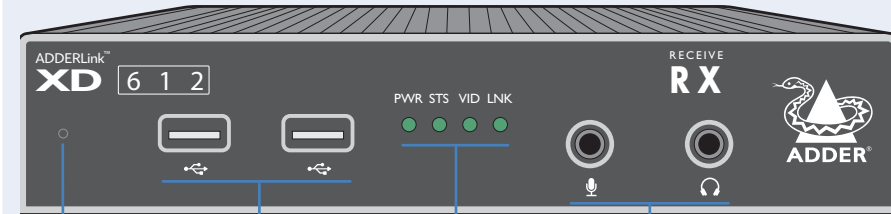
Video output port

Optionally connect local console video displays. See [Multi-display support using MST](#) and [Transmitter video link](#).

Remote port

Can be used for RS232 serial devices. See [Transmitter remote port](#) for further details.

Receiver module



Recessed reset button

See [Resetting a module](#).

USB ports

Connect your USB keyboard, mouse and other HID peripherals. See [Receiver USB devices](#) for further details.

Status indicators

These provide visual confirmation of various system functions. See [Indicators](#) for further details.

Audio ports

Connect your microphone and headphones. See [Receiver audio devices](#) for further details.

SFP+ slot

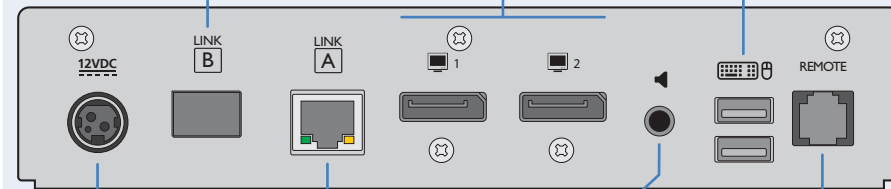
Accommodates a fiber optic SFP+ module of your choice. See [Fiber optic link](#) for further details.

Video output ports

Port 1 provides the first video stream, port 2 provides the second, if present. See [Multi-display support using MST](#) and [Receiver video display\(s\)](#).

USB ports

Connect your USB keyboard, mouse and other HID peripherals. See [Receiver USB devices](#) for further details.



Power input

See [Receiver power connection](#) for further details.

CATx port

Provides an alternative link method to fiber. See [CATx link](#).

Speaker port

Connect your speakers. See [Receiver audio devices](#) for further details.

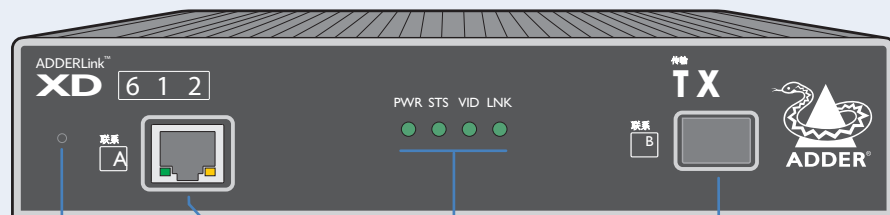
Remote port

Can be used for RS232 serial devices. See [Receiver remote port](#) for further details.

ADDERLINK XD612功能

发射器和接收器模块包含在纤薄的金属外壳中，尺寸仅为186 x 152 x 40mm。

发射机模块



凹陷的CATx端口

提供了一种替代光纤的链接方法。请参阅CATx链接。
[重置模块。](#)

状态指示器

这些提供了对各种系统功能的直观确认。有关详细信息，请参阅指示器。

SFP+插槽

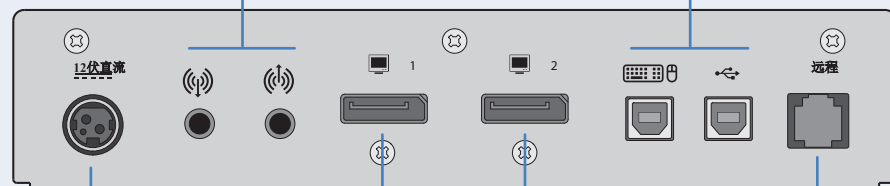
可容纳您所选择的光纤SFP+模块。有关详细信息，请参阅光纤链路。

音频端口

连接到计算机的音频输出/输入端口。请参阅[发射机音频链路](#)为了了解详情

USB端口

连接到计算机上的USB端口。最外侧的端口也支持USB音频流。有关详细信息，请参阅[发射器USB链接](#)。



电源输入

参见发射器
[有关详细信息，请电源连接。](#)

视频输入端口

连接到计算机的DisplayPort接口。请参阅[发射机视频链路](#)为了了解详情

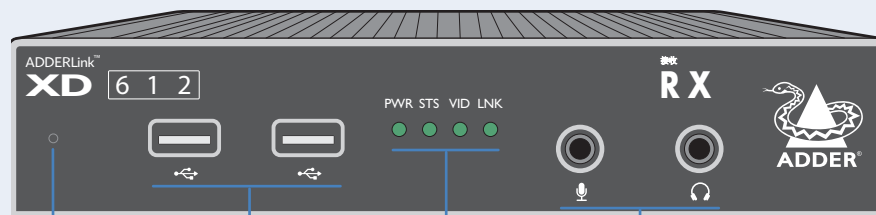
视频输出端口

可选地连接本地控制台视频显示器。请参阅[使用MST和发送器视频链接实现多显示器支持。](#)

远程端口

可用于RS232串行设备。请参阅[有关详细信息，请联系发射器远程端口。](#)

接收器模块



凹陷

[重置模块。](#)

USB端口状态指示灯音频端口

连接您的USB键盘、鼠标和其他HID外围设备。有关详细信息，请参阅[接收器USB设备](#)。

这些提供了对各种系统功能的直观确认。有关详细信息，请参阅指示器。

连接麦克风和耳机。有关详细信息，请参阅[接收器音频设备](#)。

SFP+插槽

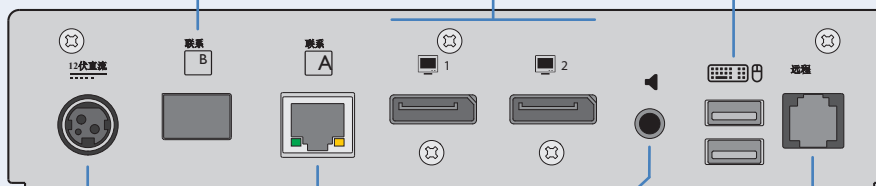
可容纳您所选择的光纤SFP+模块。有关详细信息，请参阅[光纤链路](#)。

视频输出端口

端口1提供第一个视频流，端口2提供第二个视频流（如果存在）。请参阅[使用MST和接收器视频显示器\(s\)的多显示支持。](#)

USB端口

连接您的USB键盘、鼠标和其他HID外围设备。有关详细信息，请参阅[接收器USB设备](#)。



电源输入

请参见接收器
[有关详细信息，请电源连接。](#)

CATx端口

提供了一种替代光纤的链接方法。请参阅CATx链接。

扬声器端口

连接扬声器。请参阅[有关详细信息，请参阅接收器音频设备。](#)

远程端口

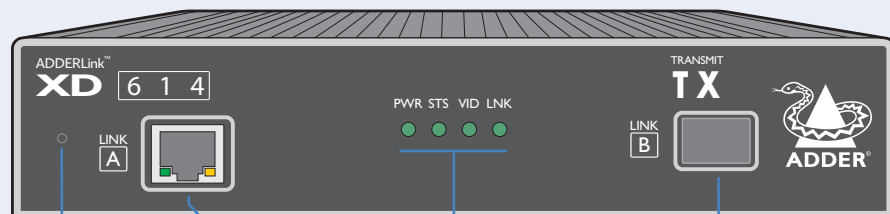
可用于RS232串行设备。请参阅[有关详细信息，请访问接收器远程端口。](#)

ADDERLINK XD614 FEATURES

The transmitter and receiver modules are contained within slimline metal casings that measure just 186 x 152 x 40mm.



Transmitter module



Recessed reset button

See [Resetting a module](#).

CATx port

Provides an alternative link method to fiber. See [CATx link](#).

Status indicators

These provide visual confirmation of various system functions. See [Indicators](#) for further details.

SFP+ slot

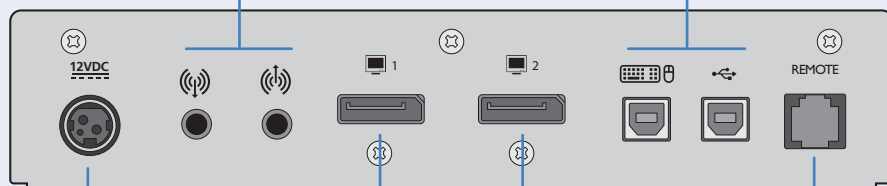
Accommodates a fiber optic SFP+ module of your choice. See [Fiber optic link](#) for further details.

Audio ports

Connects to the audio output/input ports of your computer. See [Transmitter audio links](#) for further details.

USB ports

Connect to USB ports on your computer. The outer-most port supports USB audio streaming. See [Transmitter USB links](#) for further details.



Power input

See [Transmitter power connection](#) for further details.

Video input port

Connect to the DisplayPort connector of your computer. See [Transmitter video link](#) for further details.

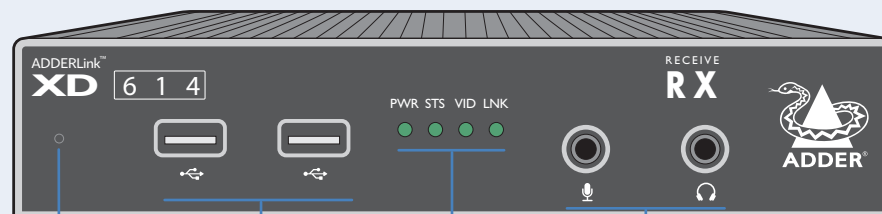
Video output port

Optionally connect a local console video display. See [Multi-display support using MST](#) and [Transmitter video link](#).

Remote port

Can be used for RS232 serial devices. See [Transmitter remote port](#) for further details.

Receiver module



Recessed reset button

See [Resetting a module](#).

USB ports

Connect your USB keyboard, mouse and other HID peripherals. See [Receiver USB devices](#) for further details.

Status indicators

These provide visual confirmation of various system functions. See [Indicators](#) for further details.

Audio ports

Connect your microphone and headphones. See [Receiver audio devices](#) for further details.

SFP+ slot

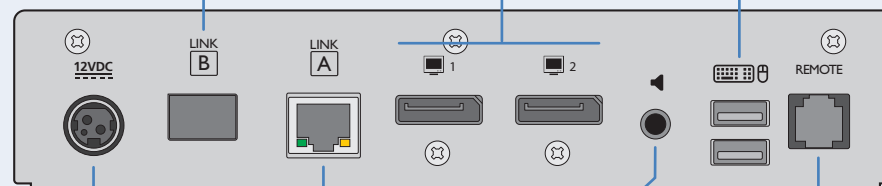
Accommodates a fiber optic SFP+ module of your choice. See [Fiber optic link](#) for further details.

Video output ports

Depending on settings, either port 1 provides all four MST video streams, or port 1 and 2 provide the first two streams. See [Multi-display support using MST](#) and [Choosing RX video mode](#).

USB ports

Connect your USB keyboard, mouse and other HID peripherals. See [Receiver USB devices](#) for further details.



Power input

See [Receiver power connection](#) for further details.

CATx port

Provides an alternative link method to fiber. See [CATx link](#).

Speaker port

Connect your speakers. See [Receiver audio devices](#) for further details.

Remote port

Can be used for RS232 serial devices. See [Receiver remote port](#) for further details.

INSTALLATION

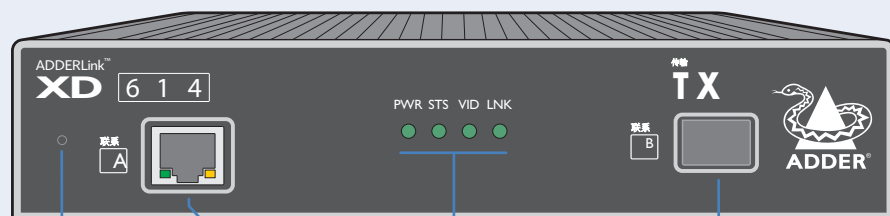
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OPERATION

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发射机模块



凹陷的CATx端口

重置按钮
提供了一种替代光纤的链接方法。请参阅CATx链接。
[重置模块。](#)

状态指示器

这些提供了对各种系统功能的直观确认。有关详细信息，请参阅指示器。

SFP+插槽

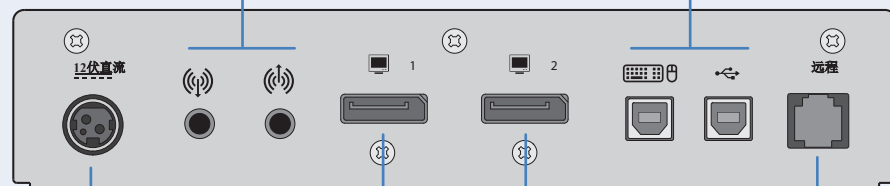
可容纳您所选择的光纤SFP+模块。有关详细信息，请参阅光纤链路。

音频端口

连接到计算机的音频输出/输入端口。请参阅[发射机音频链路](#)了解详情

USB端口

连接到计算机上的USB端口。最外侧的端口支持USB音频流。有关详细信息，请参阅发射器USB链接。



电源输入

参见发射器
[有关详细信息，请电源连接。](#)

视频输入端口

连接到计算机的DisplayPort接口。请参阅[发射机视频链路](#)了解详情

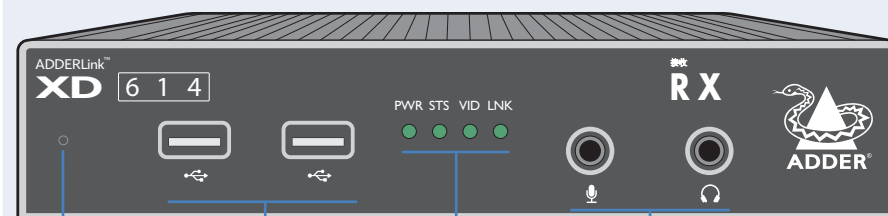
视频输出端口

可选地连接本地控制台视频显示器。请参阅[使用MST和发送器视频链接实现多显示器支持](#)。[发送器视频链接。](#)

远程端口

可用于RS232串行设备。请参阅[有关详细信息，请联系发射器远程端口。](#)

接收器模块



凹陷

重置按钮
看
[重置模块。](#)

USB端口状态指示灯音频端口

连接您的USB键盘、鼠标和其他HID外围设备。有关详细信息，请参阅[接收器USB设备](#)。

这些提供了对各种系统功能的直观确认。有关详细信息，请参阅指示器。

连接麦克风和耳机。有关详细信息，请参阅[接收器音频设备](#)。

SFP+插槽

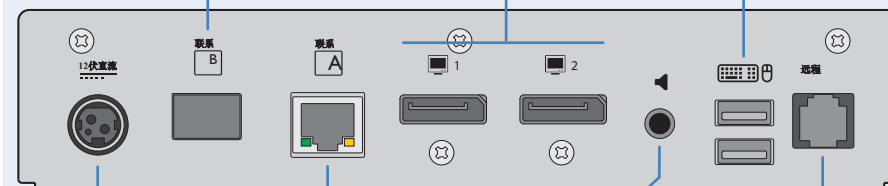
可容纳您所选择的光纤SFP+模块。有关详细信息，请参阅[光纤链路](#)。

视频输出端口

根据设置的不同，端口1可能提供全部四个MST视频流，也可能由端口1和端口2各提供两个视频流。请参阅[使用MST支持多显示器](#)和[选择RX视频模式](#)。

USB端口

连接您的USB键盘、鼠标和其他HID外围设备。有关详细信息，请参阅[接收器USB设备](#)。



电源输入

请参见接收器
[有关详细信息，请电源连接。](#)

CATx端口

提供了一种替代光纤的链接方法。请参阅CATx链接。

扬声器端口

连接扬声器。请参阅[有关详细信息，请参阅接收器音频设备](#)。

远程端口

可用于RS232串行设备。请参阅[有关详细信息，请访问接收器远程端口](#)。

TECHNICAL SPECIFICATIONS

ADDERLink XD612 / 614

- | | |
|----------------------------------|-------------------|
| • Nominal Operating Power (W) | 10W |
| • Peak Power (W) | 12W |
| • External Power | 12V DC, 1.5A |
| • Max operating Altitude (m) | 2000m |
| • Operating Temp range (°C) | 0 to +40°C |
| • Operating Humidity range (%RH) | 0-80% |
| • Storage Temp range (°C) | -10 to +50°C |
| • Storage Humidity range (%RH) | 0-80% |
| • Max Thermal Dissipation (BTU) | 41.94 |
| • MTBF (Tx / Rx) | 530k / 520k hours |
| • MTBF (Pair) | 260k hours |

Local unit – Transmitter (Tx)

- 4 x tri-color status indicators
- DisplayPort in and local pass-through out
- 2 x USB2.0 type B
- Line in and out analog audio
- RJ12 serial port
- RJ45 and SFP+ ports

Remote unit – Receiver (Rx)

- 4 x tri-color status indicators
- 2 x DisplayPort out
- 4 x USB2.0 type A
- Mic in, headset and speaker out
- RJ12 serial port
- RJ45 and SFP+ ports

Physical design

- Robust metal construction
- TX and RX: 186mm/7.32" (w), 39mm/1.54" (h), 148mm/5.83" (d)
- TX: 1.29kg / 2.84lbs
- RX: 1.24kg / 2.73lbs

Power supply

- 100-240VAC, 47-63Hz
- 12VDC 18W output from power supply unit.

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ADDERLink XD612 / 614

• 标称工作功率(W)	10W
• 峰值功率(W)	12W
• 外部电源	12V DC, 1.5A
• 最大工作高度(m)	2000m
• 工作温度范围 (°C)	0 至 +40°C
• 工作湿度范围 (%RH)	0-80%
• 储存温度范围 (°C)	-10 至 +50°C
• 储存湿度范围 (%RH)	0-80%
• 最大热耗散 (BTU)	41.94
• MTBF (Tx/Rx)	530k / 520k 小时
MTBF (成对)	260k小时

本地单元-发送器 (Tx)

- 4个三色状态指示灯
- DisplayPort端口和本地直通输出
- 2个USB2.0 type B接口
- 输入和输出模拟音频
- RJ12串口
- RJ45和SFP+端口

远程装置-接收器 (Rx)

- 4个三色状态指示灯
- 2个DisplayPort输出
- 4个USB2.0 A型接口
- 麦克风输入，耳机和扬声器输出
- RJ12串口
- RJ45和SFP+端口

实体设计

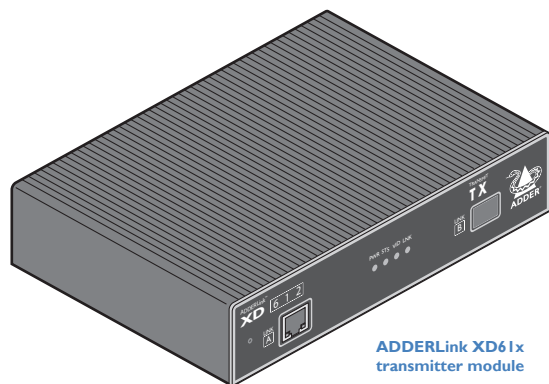
- 坚固的金属结构
- TX和RX: 186mm/7.32" (w)、39mm/1.54" (h)148mm/5.83" (d)
- TX: 1.29kg / 2.84lbs
- RX: 1.24kg / 2.73lbs

电源

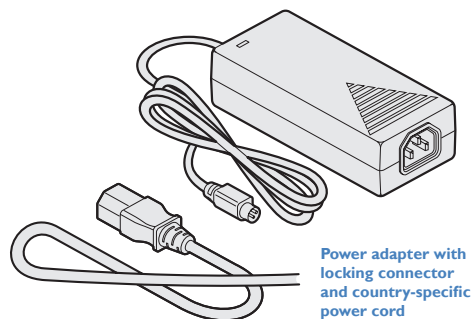
- 100-240VAC, 47-63Hz
- 电源单元的输出为12VDC 18W。

SUPPLIED ITEMS

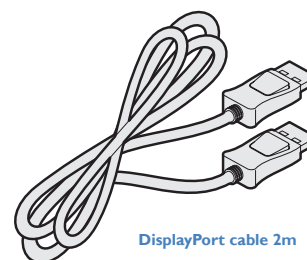
XD61x transmitter kit



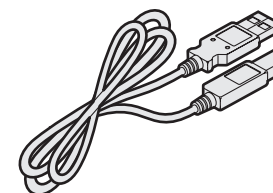
ADDERLink XD61x
transmitter module



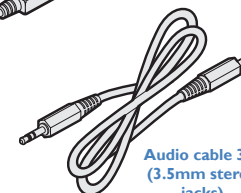
Power adapter with
locking connector
and country-specific
power cord



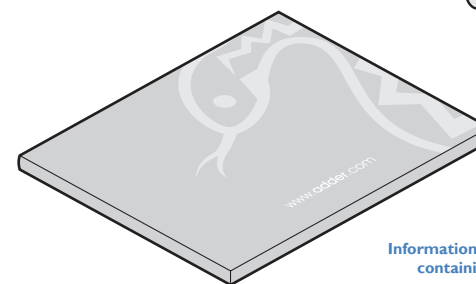
DisplayPort cable 2m



USB cable 2m
(type A to B)

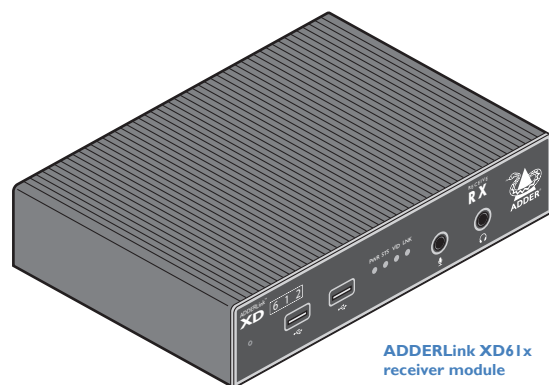


Audio cable 3m
(3.5mm stereo
jacks)

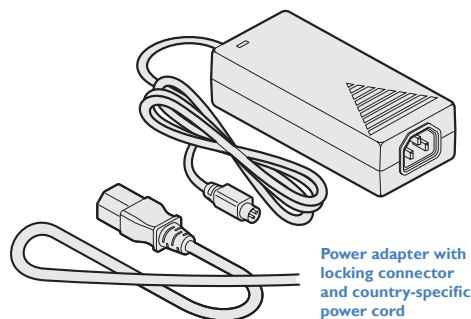


Information wallet
containing:
Quick setup guide
Eight self-adhesive rubber feet
Safety document

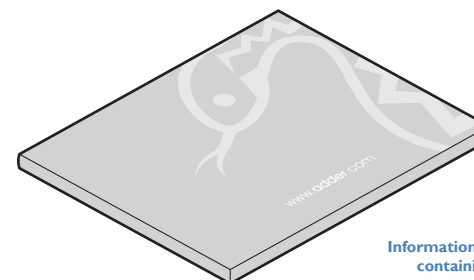
XD61x receiver kit



ADDERLink XD61x
receiver module

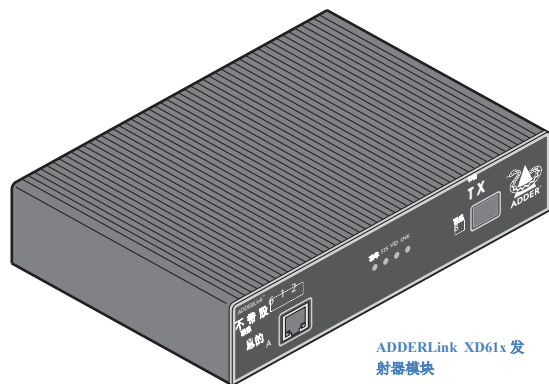


Power adapter with
locking connector
and country-specific
power cord

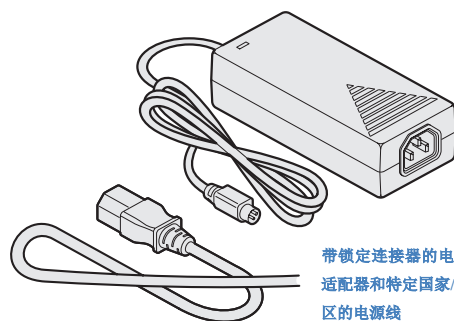


Information wallet
containing:
Quick setup guide
Eight self-adhesive rubber feet
Safety document

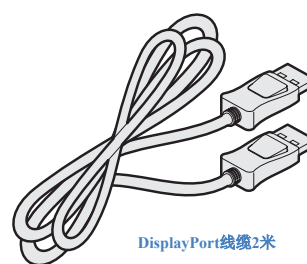
XD61x发射器套件



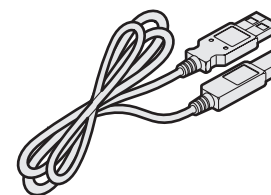
ADDERLink XD61x 发射器模块



带锁定连接器的电源适配器
和特定国家/地区的电源线



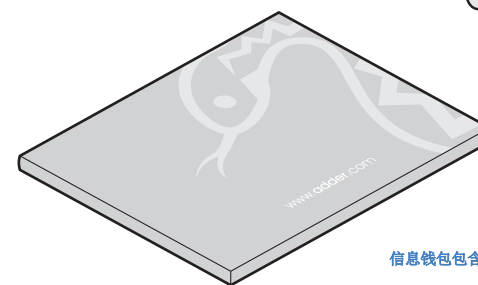
DisplayPort 线缆 2 米



USB 线缆 2 米 (A 型到 B 型)



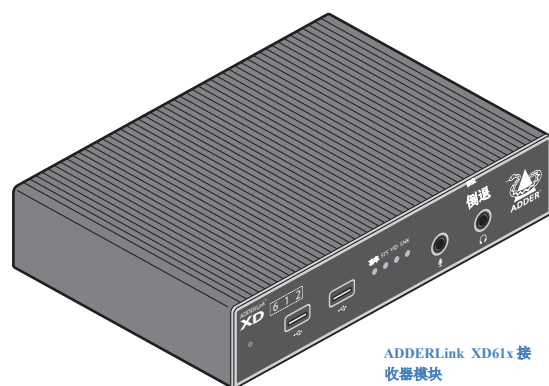
音频线缆 3 米 (3.5 mm 立体声插孔)



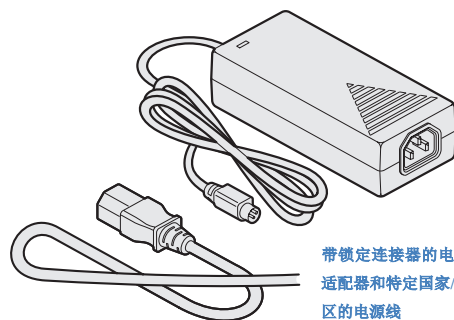
信息钱包包含:

快速设置指南
八个自粘橡胶脚垫安全文件

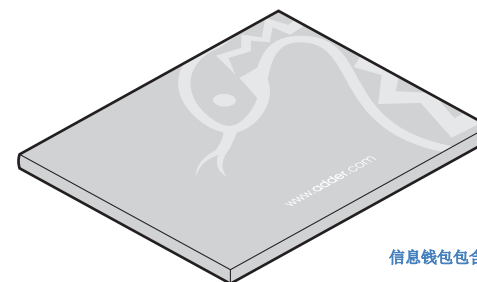
XD61x接收机套件



ADDERLink XD61x 接收器模块



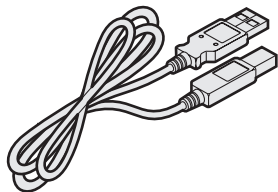
带锁定连接器的电源适配器
和特定国家/地区的电源线



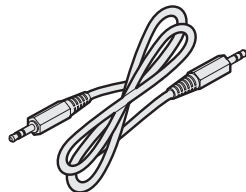
信息钱包包含:

快速设置指南
八个自粘橡胶脚垫安全文件

OPTIONAL EXTRAS



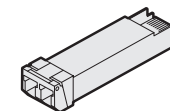
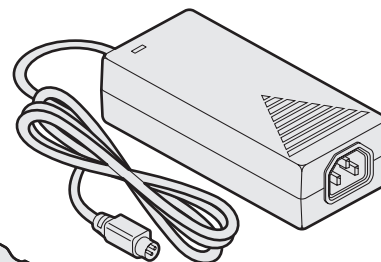
USB cable 2m (type A to B)
Part number: VSC24



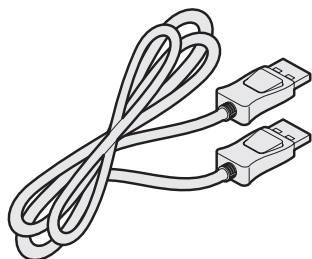
Audio cable 2m (3.5mm stereo jacks)
Part number: VSC22

**Replacement power adapter
with locking connector**
Part number: PSU-IEC-12VDC-1.5A

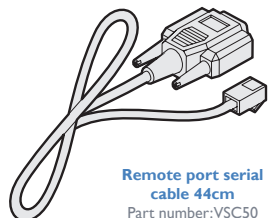
Country-specific power cords
CAB-IEC-AUS (Australia)
CAB-IEC-EURO (Central Europe)
CAB-IEC-UK (United Kingdom)
CAB-IEC-USA (United States)
CAB-IEC-JAPAN (Japan)



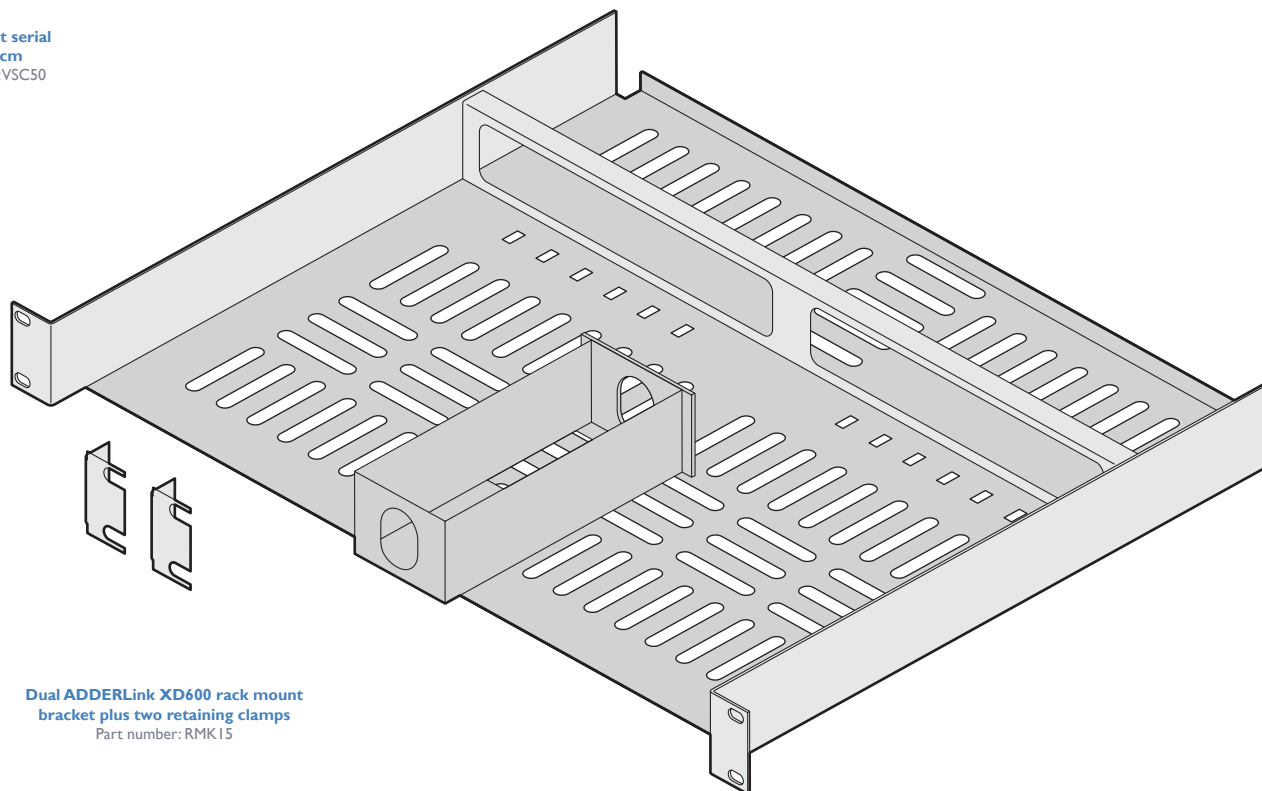
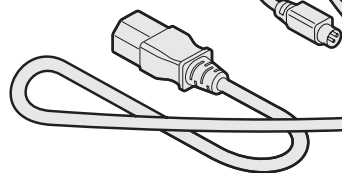
SFP+ module with LC connectors
Multi mode: SFP-MM-LC-10G
Single mode: SFP-SM-LC-10G



DisplayPort cables 2m
Part number: VSCD18



**Remote port serial
cable 44cm**
Part number: VSC50



**Dual ADDERLink XD600 rack mount
bracket plus two retaining clamps**
Part number: RMK15

INSTALLATION

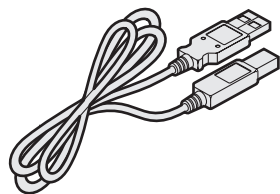
CONFIGURATION

OPERATION

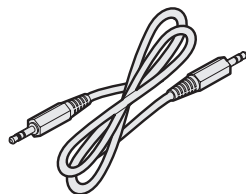
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可选附加组件



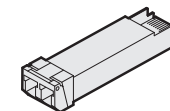
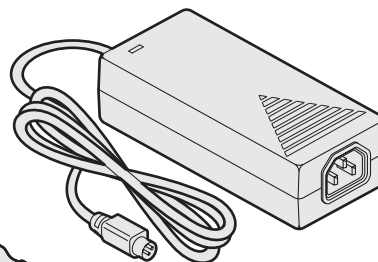
USB线缆2米 (A型到B型)
部件号: VSC24



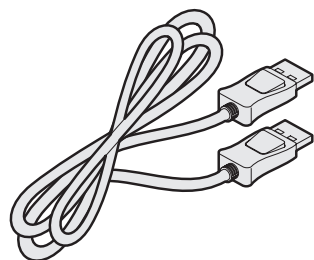
音频线缆2米(3.5mm立体声插孔)
部件号: VSC22

**替换电源适配器
带锁定连接器**
部件号: PSU-IEC-12VDC-1.5A

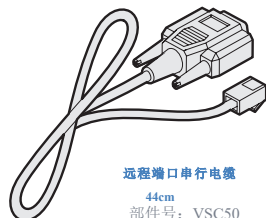
特定国家的电源线
CAB-IEC-AUS (澳大利亚)
CAB-IEC-EURO (中欧)
CAB-IEC-UK (英国)
CAB-IEC-USA (美国)
CAB-IEC-JAPAN (日本)



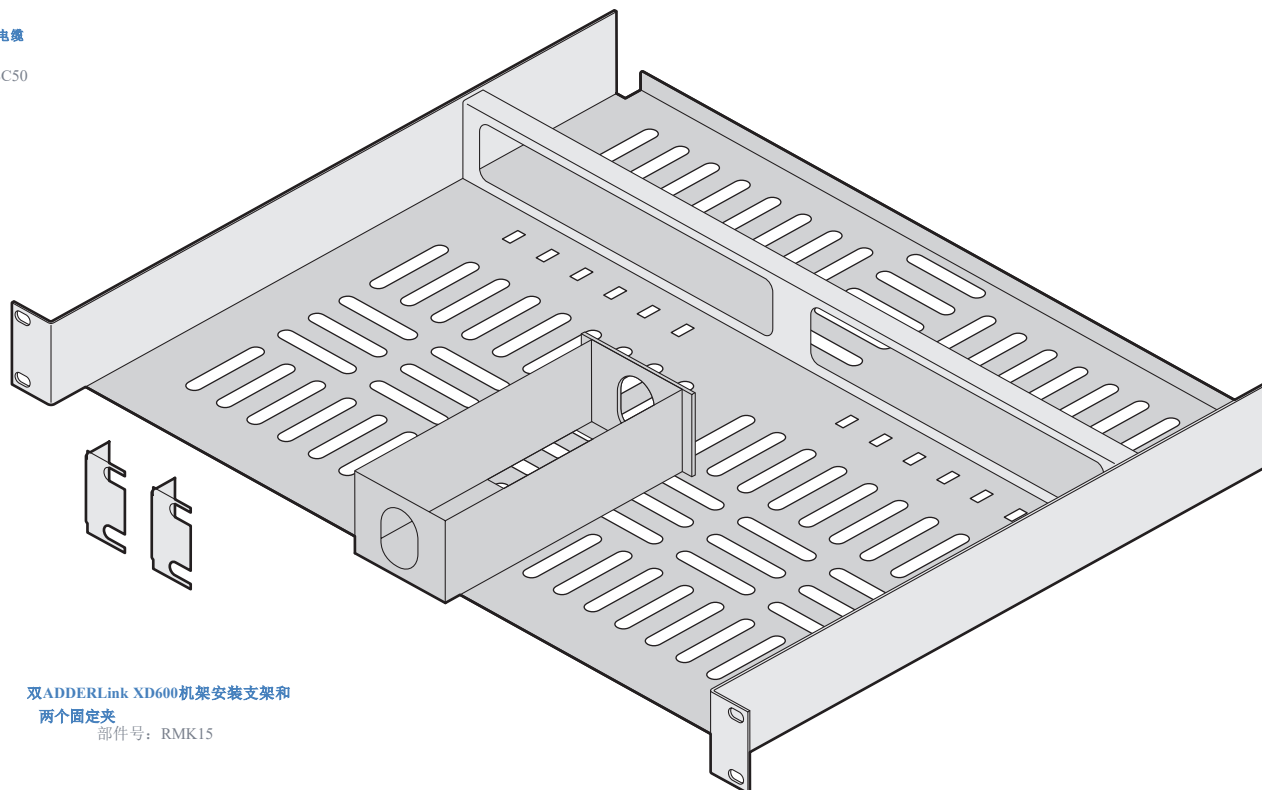
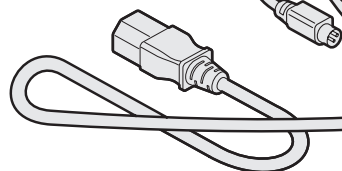
带LC连接器的SFP+模块
多模: SFP-MM-LC-10G
单模: SFP-SM-LC-10G



DisplayPort线缆2m
部件号: VSCD18



**远程端口串行电缆
44cm**
部件号: VSC50



**双ADDERLink XD600机架安装支架和
两个固定夹**
部件号: RMK15

安装

配置

OPERATION

其他
索引资料

LOCATIONS

Please consider the following important points when planning the position of the AdderLink XD61x modules:

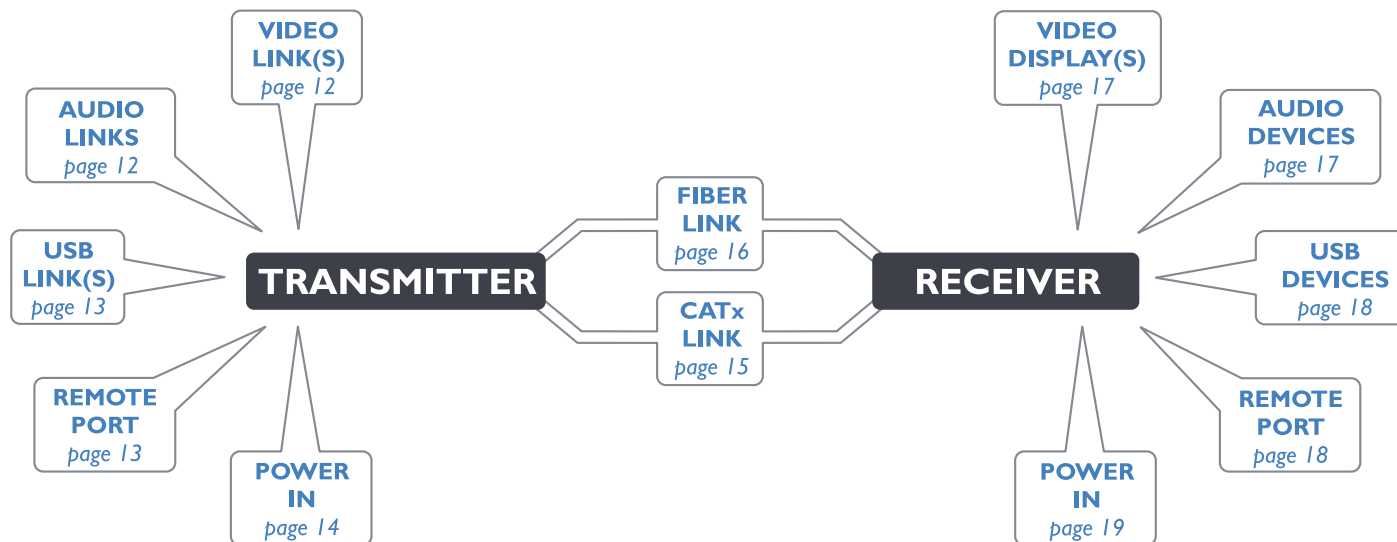
- Situate the transmitter module close to the system to which it will be connected and near to a source of mains power. Place the receiver module in similar close proximity to the peripherals that it will connect with, plus a source of mains power.
- Consult the precautions listed within the supplied safety leaflet.
- Connections do not need to be carried out in the order given within this guide, however, where possible connect the *power in* as the final step.

Suitable for installation in Information Technology Rooms in accordance with Article 645 of the National Electrical Code and NFPA 75.

Peut être installé dans des salles de matériel de traitement de l'information conformément à l'article 645 du National Electrical Code et à la NFPA 75.

CONNECTIONS

Installation involves linking the transmitter module to various ports on the host computer, while the receiver module is attached to your video display(s) and peripherals:



Click a connection to see details

地点

规划AdderLink XD61x模块的位置时，请考虑以下重要事项：

- 将发射器模块放置在靠近要连接的系统的位置，并且靠近电源。将接收器模块放在类似的靠近要连接的外围设备的位置，加上电源。
- 请查阅所提供的安全说明书中列出的注意事项。
- 不过，连接不需要按照本指南中给出的顺序进行，只要有可能，就将电源作为最后一步连接。

根据国家电气规范第645条和NFPA 75，适

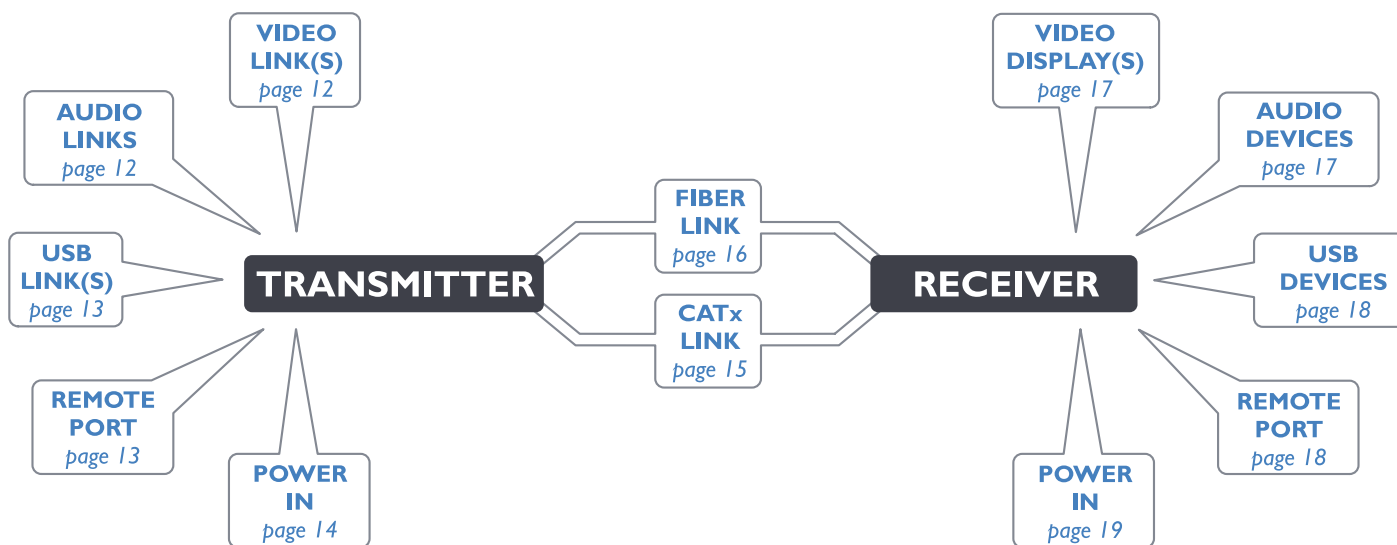
合安装在信息技术室内。

可按照《国家电气规范》第645条及NFPA

75标准，安装于信息处理设备机房内。

连接

安装涉及将发送器模块连接到主机上的各个端口，而接收器模块则连接到您的视频显示器(s)和外围设备：

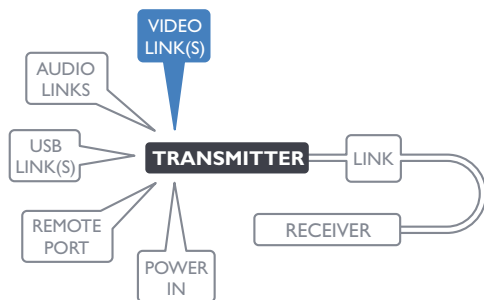


单击连接以查看详细信息

Transmitter video link(s)

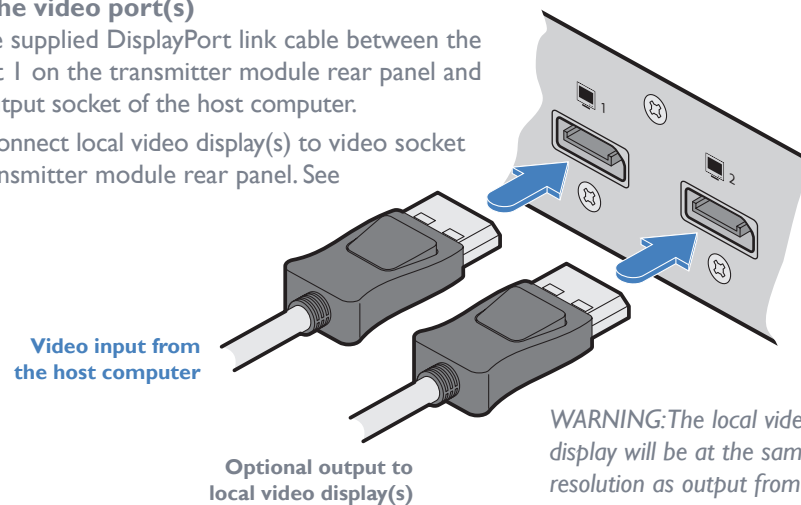
AdderLink XD61x modules can transfer various high resolution video modes via their DisplayPort connectors. The XD612 models support single or dual video displays while XD614 models support up to four video displays.

Note: XD612 models support up to WUXGA resolution across either CATx or fiber links. XD614 models support various resolutions, see the box below.



To connect the video port(s)

- 1 Connect the supplied DisplayPort link cable between the video socket 1 on the transmitter module rear panel and the video output socket of the host computer.
- 2 Optionally connect local video display(s) to video socket 2 on the transmitter module rear panel. See page 4.



WARNING: The local video display will be at the same resolution as output from the RX. Ensure that the local monitor can handle the required resolution.

Maximum video resolutions

The extenders support the following maximum video resolutions:

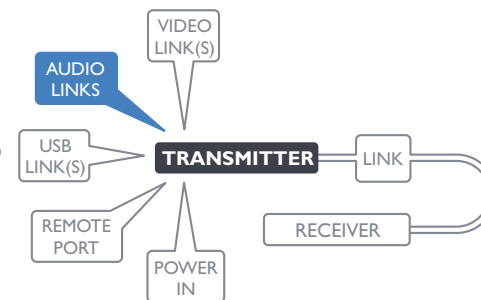
Fiber (up to 4km) or CATx (up to 100m)

XD612	1 display at 1920 x 1200 / 60fps (WUXGA)
	2 displays at 1920 x 1200 / 60fps (WUXGA)
XD614	1 display at 4096 x 2160 / 60fps (4K)
	2 displays at 2560 x 1600 / 60fps (WQXGA)
	3 displays at 1920 x 1200 / 60fps (WUXGA)
	4 displays at 1920 x 1200 / 60fps (WUXGA)

Transmitter audio links

The AdderLink XD61x modules support analog stereo audio in and out connections. Where necessary, make connections between the audio input and/or output ports of the host computer and the transmitter module.

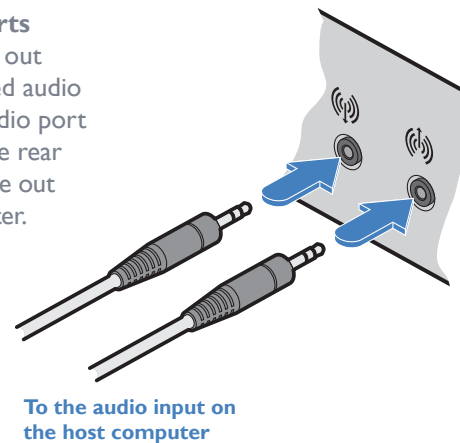
Note: Digital 2-channel (stereo) audio is also supported separately via the DisplayPort connectors as a transparent link- through.



To connect the audio ports

- 1 For the line in and/or line out ports, connect the supplied audio link cable between the audio port on the transmitter module rear panel and the line in or line out socket of the host computer.

From the audio output on the host computer

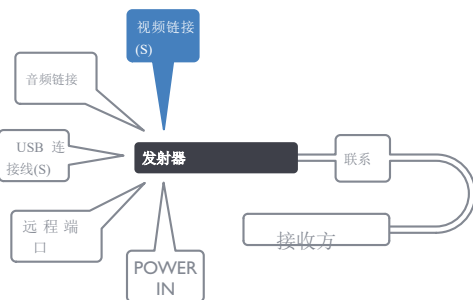


To the audio input on the host computer

发射机视频链路(s)

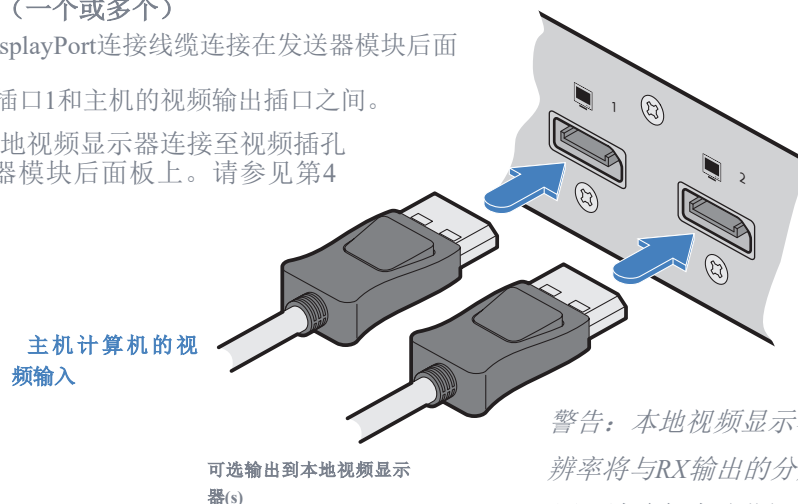
AdderLink XD61x模块可通过其Display-Port连接器传输各种高分辨率视频模式。XD612型号支持单个或双视频显示器，而XD614型号最多支持四个视频显示器。

注：XD612型号支持CATx或光纤链路的最高WUXGA分辨率。
XD614型号支持多种分辨率，请参见下方框。



连接视频端口（一个或多个）

- 1 将提供的DisplayPort连接线缆连接在发送器模块后面板上的视频插口1和主机的视频输出插口之间。
- 2 可选地将本地视频显示器连接至视频插孔2位于发射器模块后面板上。请参见第4页。



警告：本地视频显示器的分辨率将与RX输出的分辨率相同。请确保本地监视器能够处理所需的分辨率。

最大视频分辨率

扩展器支持以下最大视频分辨率：

光纤（最长4公里）或CATx（最长100米）

XD612 1显示屏，1920 x 1200 / 60fps（WUXGA）

2个显示器，1920 x 1200 / 60fps（WUXGA），

XD614 1个显示器，4096 x 2160 / 60fps（4K）

2个显示器，2560 x 1600 / 60fps（WQXGA）

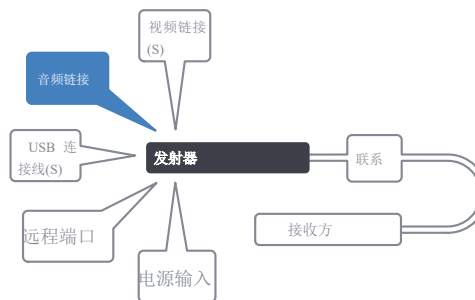
3个显示器，1920 x 1200 / 60fps（WUXGA）

4个显示器，1920 x 1200 / 60fps（WUXGA）

发射机音频链路

AdderLink XD61x模块支持模拟立体声音频输入/输出连接。必要时，可在主机的音频输入和/或输出端口与发送器模块之间建立连接。

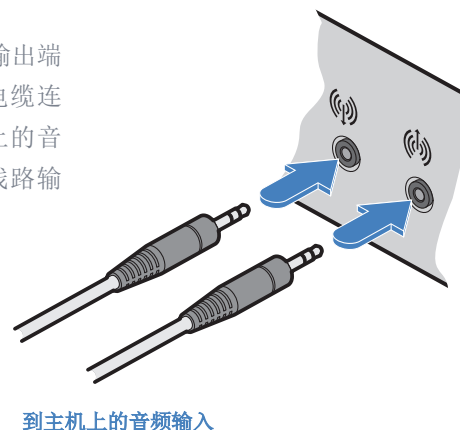
注：数字双通道（立体声）音频也可通过DisplayPort连接器单独支持，作为透明设备。
通过链接。



连接音频端口

- 1 对于线路输入和/或线路输出端口，将提供的音频链路电缆连接在发送器模块后面板上的音频端口与主机计算机的线路输入或线路输出插座之间。

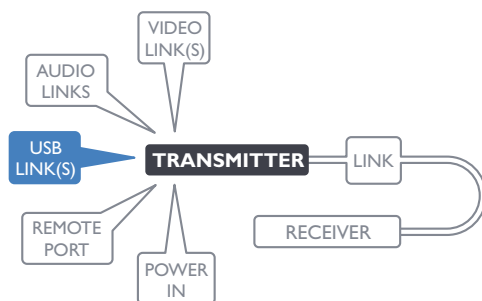
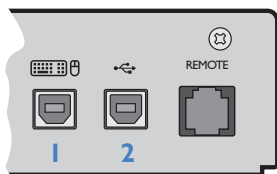
从主机计算机的音频输出



到主机上的音频输入

Transmitter USB links

The transmitter module has two USB input ports on its rear panel:

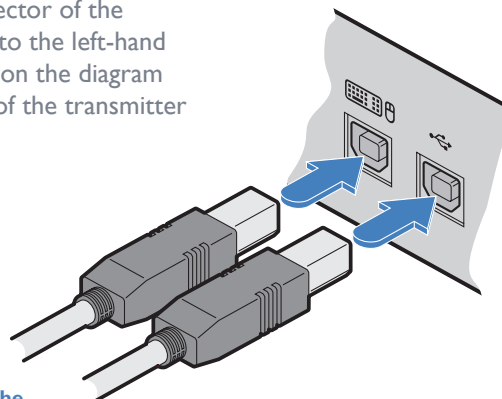


The ports have different functions:

1	2
USB HID (Human Interface Device) feed to all USB ports on the receiver	USB audio feed to/from the analog audio ports labeled on the receiver

To connect the USB port(s)

- 1 Connect the type B connector of the supplied USB/video cable to the left-hand side USB port (labeled '1' on the diagram above) on the rear panel of the transmitter module.



USB links from the host computer

- 2 Connect the type A connector of the cable to a vacant USB port on the host computer.
- 3 Repeat steps 1 and 2 for the second port if USB audio is required (see table above).

Transmitter Remote port

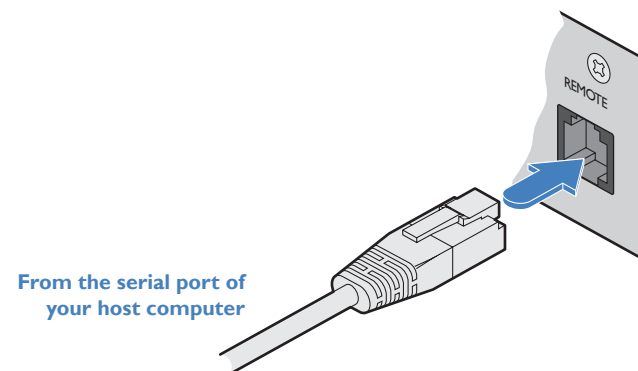
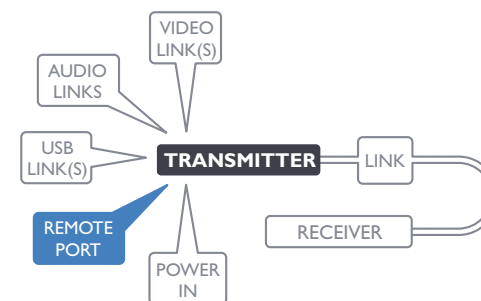
The Remote port has a dual role, it can either:

- Allow an optional remote control to be connected to the module, or
- Create an RS232 serial connection with the receiver module.

When serial devices are attached to the Remote ports on the transmitter and receiver modules, the units transparently convey the signals between them at rates up to 115200 baud - no serial configuration is required. An optional serial cable (part number: VSC50) is available from Adder.

To connect the Remote port

- 1 Use the optional serial cable (VSC50) to link the Remote port on the rear panel of the transmitter module with a vacant RS232 serial port on your host computer.

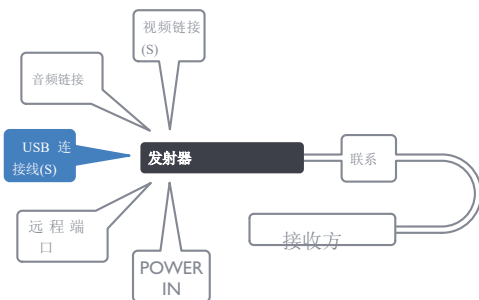
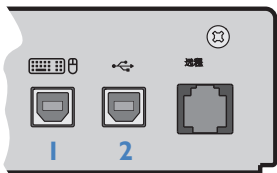


From the serial port of your host computer

Please see [Appendix 1](#) for pin-out details of the Remote port.

发射器USB接口

发射器模块的后面板上有两个USB输入端口：



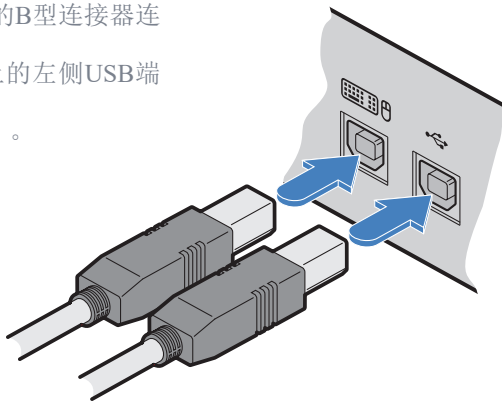
端口具有不同的功能：

1	2
将USB HID（人机接口设备）馈入接收器的所有USB端口	通过标记的模拟音频端口向/从USB传送音频信号🎧🎤🔊在接收器上

连接USB端口（一个或多个）

- 1 将提供的USB/video电缆的B型连接器连接到发送器模块后面板上的左侧USB端口（上图中标记为“1”）。

来自的USB链接
主机



- 2 将电缆的A型连接器连接到主机计算机上的空闲USB端口。
- 3 如果需要USB音频，请对第二个端口重复步骤1和2（参见上表）。

发射器远程端口

远程端口具有双重作用，它可以：

- 允许可选的遥控器连接到模块，或
- 与接收器模块建立RS232串行连接。

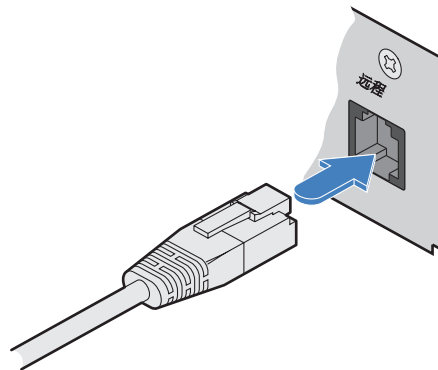
当串行设备连接到发送器的远程端口时

接收器模块，单元之间以高达115200波特率透明地传送信号——不需要串行配置。可选的串行电缆（部件号：VSC50)可从Adder获得。

连接远程端口

- 1 使用可选的串行电缆（VSC50）将发送器模块后面板上的远程端口与主机计算机上空闲的RS232串行端口连接起来。

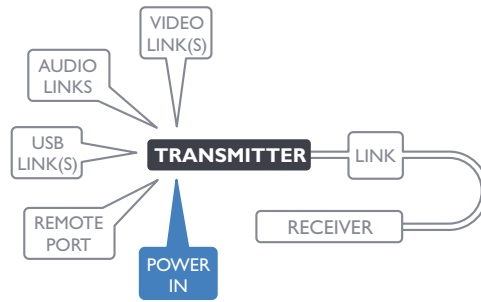
从的串行端口
您的主机



有关远程端口的引脚详细信息，请参见附录1。

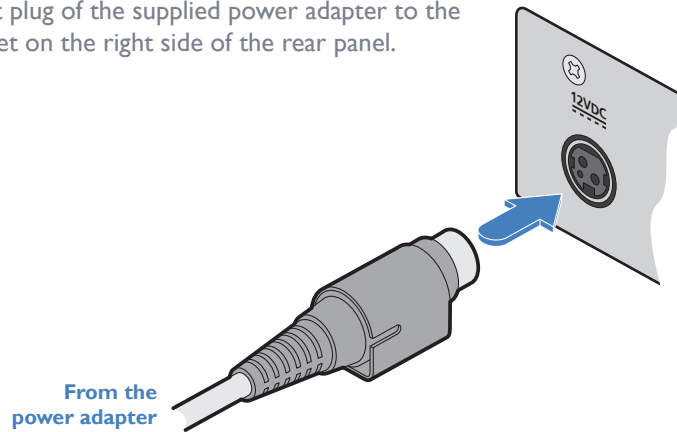
Transmitter power connection

There is no on/off switch on either of the AdderLink XD61x modules, so operation begins as soon as power is applied. The power adapters supplied with the modules use locking-type plugs to help prevent accidental disconnections; please follow the instructions shown on the right whenever disconnecting a power adapter.

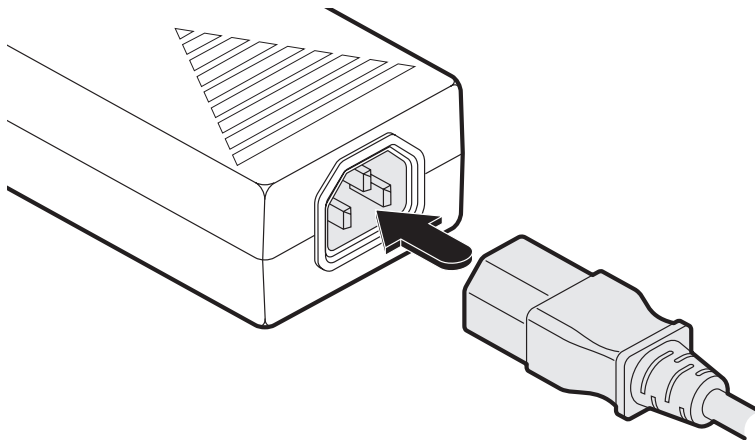


To connect the power adapter

- 1 Attach the output plug of the supplied power adapter to the power input socket on the right side of the rear panel.



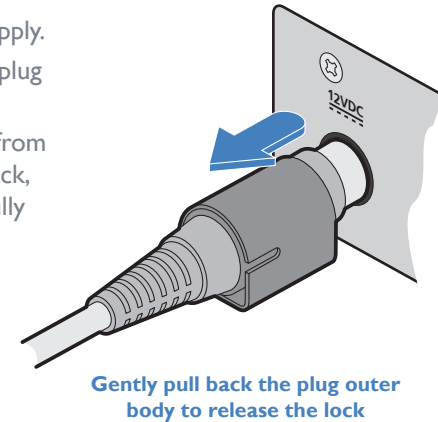
- 2 Connect the IEC connector of the supplied country-specific power cord to the socket of the power adapter.



- 3 Connect the power cord to a nearby mains supply socket.

To disconnect the power adapter

- 1 Isolate the power adapter from the mains supply.
- 2 Grasp the outer body of the power adapter plug where it connects with the module.
- 3 Gently pull the body of the outer plug away from the module. As the body of the plug slides back, it will release from the socket and you can fully withdraw the whole plug.

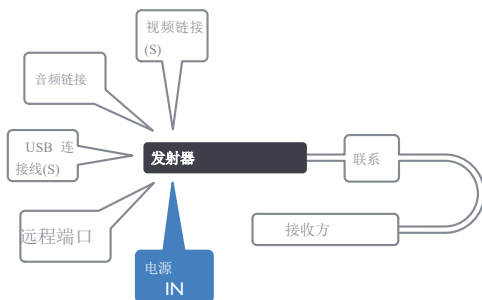


IMPORTANT: Please read and adhere to the electrical safety information given within the supplied safety leaflet. In particular, do not use an unearthed power socket or extension cable.

Note: Both the modules and the power supplies generate heat when in operation and will become warm to the touch. Do not enclose them or place them in locations where air cannot circulate to cool the equipment. Do not operate the equipment in ambient temperatures exceeding 40 degrees Centigrade. Do not place the products in contact with equipment whose surface temperature exceeds 40 degrees Centigrade.

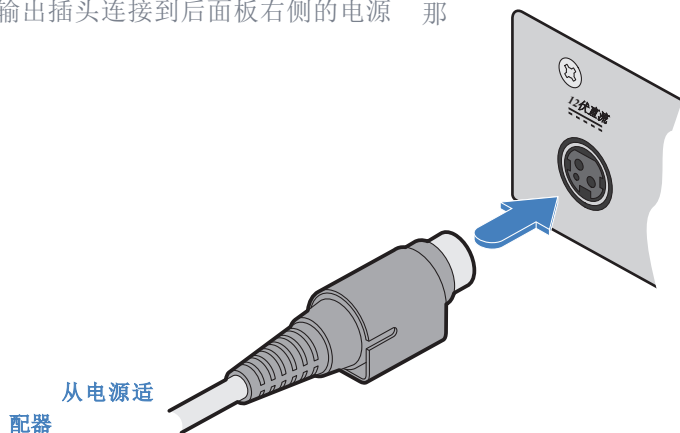
发射机电源连接

AdderLink XD61x模块均没有开关，因此只要通电，操作就会立即开始。随模块提供的电源适配器使用锁定型插头以帮助防止意外断开电源适配器时，请按照右侧所示的说明进行操作。

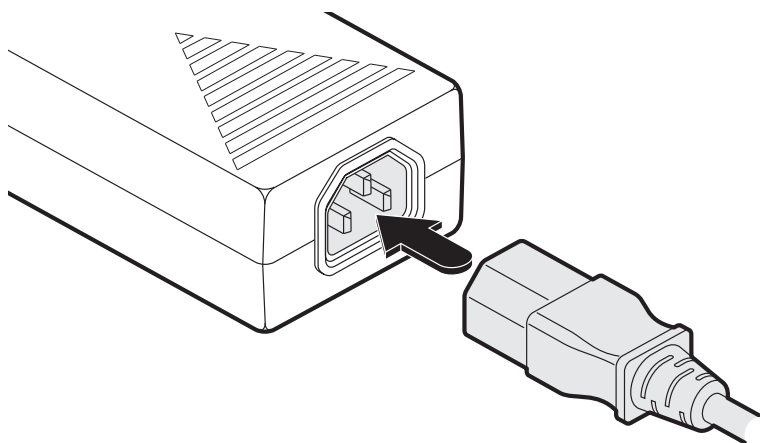


连接电源适配器

- 1 将电源适配器的输出插头连接到后面板右侧的电源输入插座上。



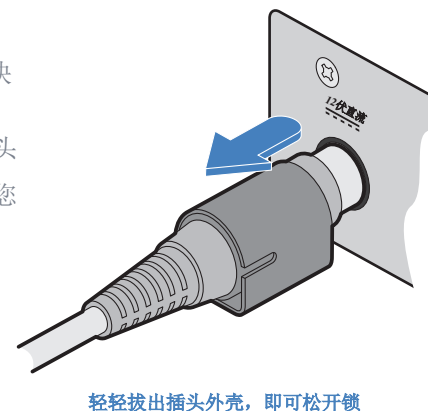
- 2 连接于电源适配器的IEC连接 已提供国别信息 电源线到 套接字



- 3 将电源线连接到附近的市电插座。

断开电源适配器

- 1 将电源适配器从主电源中分离。
- 2 抓住电源适配器插头的外侧，即插头与模块连接处。
- 3 轻轻将外插头的主体从模块中拉出。当插头主体滑回时，它就会从插座中释放出来，您可以完全抽出整个插头。



重要提示：请阅读并遵守安全说明书中提供的电气安全信息。特别注意：请勿使用未接地的电源插座或延长线。

注意：模块和电源在运行时都会产生热量，触摸时会感觉发热。请勿将它们封闭或放置在无法通风的区域。请勿在超过40摄氏度的环境温度下操作设备。请勿将产品与表面温度超过40摄氏度的设备接触。

Linking

ADDERLink XD61x transmitters and receivers can be linked using either:

- CATx (see below), or
- Fiber (see next page)

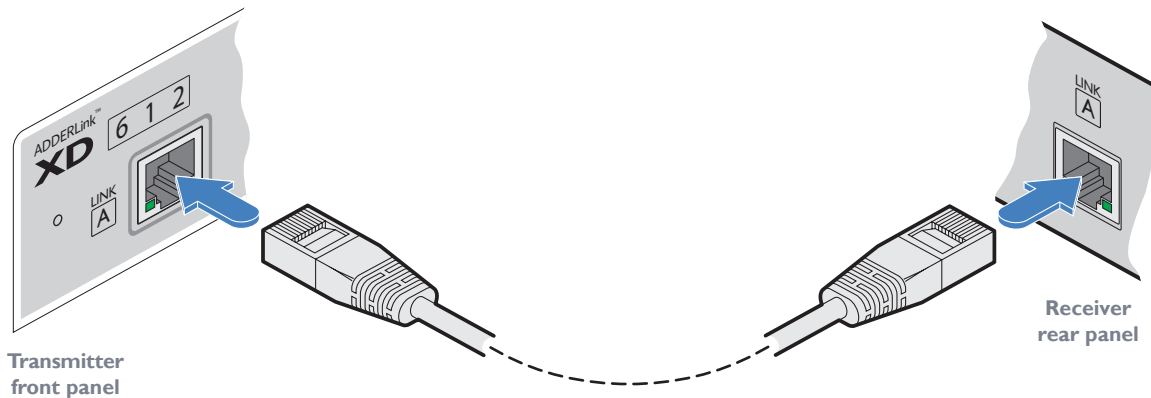
CATx link

The CATx ports on each module (labeled Link A) allow you to create direct links of up to 50m (when using CAT5e) or 100m (when using CAT6). In order to work in CATx mode, the SFP+ fiber modules must be removed from their sockets.

Note: The CATx ports are not network ports and should not be connected to network switches or computer ports.

To make the CATx link

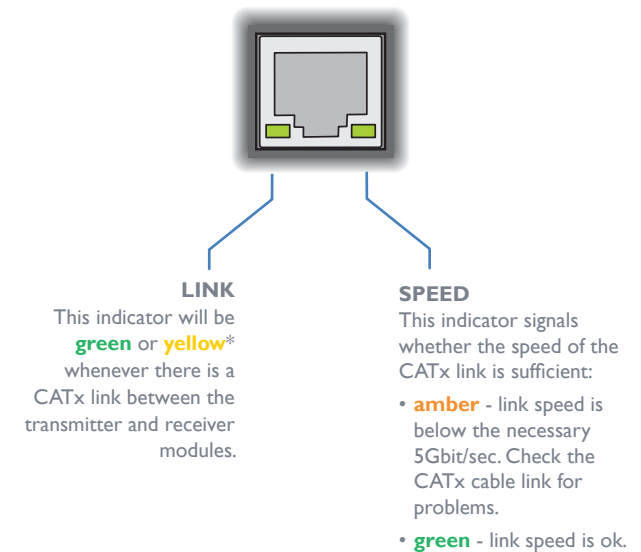
- 1 Connect a CATx (CAT 5e or 6 as required) cable between the Link A ports on the transmitter (front panel) and the receiver (rear panel):



- 2 In operation, ensure that both indicators on the CATx connectors are green. See right.

CATx status indicators

The status indicators on the CATx port connector of each module provide further status information when a CATx link is in use:



**The CATx LINK LED will be either yellow or green, depending upon the connector manufacturer used. There is no difference in functionality.*

耦合

ADDERLink XD61x发射器和接收器可通过以下任一方式连接：•CATx

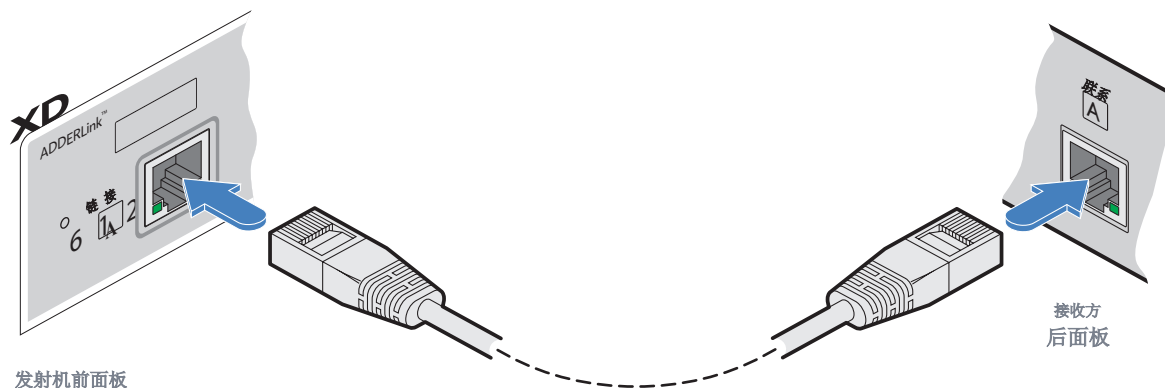
- （见下文），或
- 纤维（见下页）

CATx链路

每个模块上的CATx端口（标记为Link A）允许您创建最长50米（使用CAT5e时）或100米（使用CAT6时）的直接链路。要以CATx模式工作，必须将SFP+光纤模块从其插座中取出。

注意： CATx端口不是网络端口，不应将其连接到网络交换机或计算机端口。要建立CATx链路

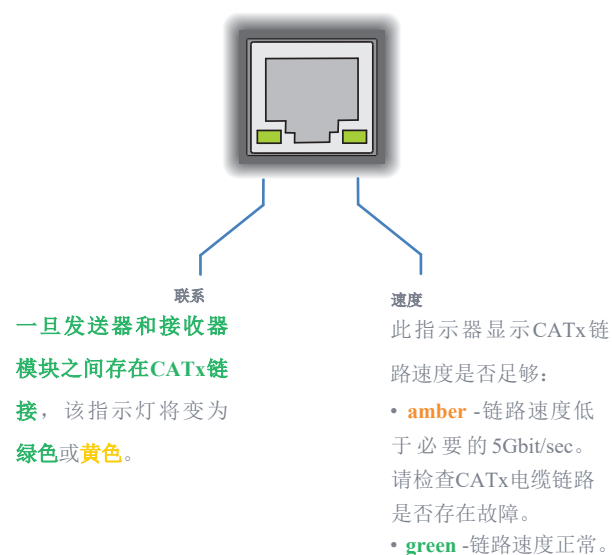
- 1 在发送器（前面板）和接收器（后面板）的Link A端口之间连接CATx（根据需要，使用CAT 5e或CAT 6）电缆：



- 2 操作时，确保CATx连接器上的两个指示灯均为绿色。请参见右侧。

CATx状态指示灯

当CATx链路处于使用状态时，每个模块的CATx端口连接器上的状态指示器会提供进一步的状态信息：



*CATx LINK LED 为黄色或绿色，具体取决于所使用的连接器制造商。二者功能相同。

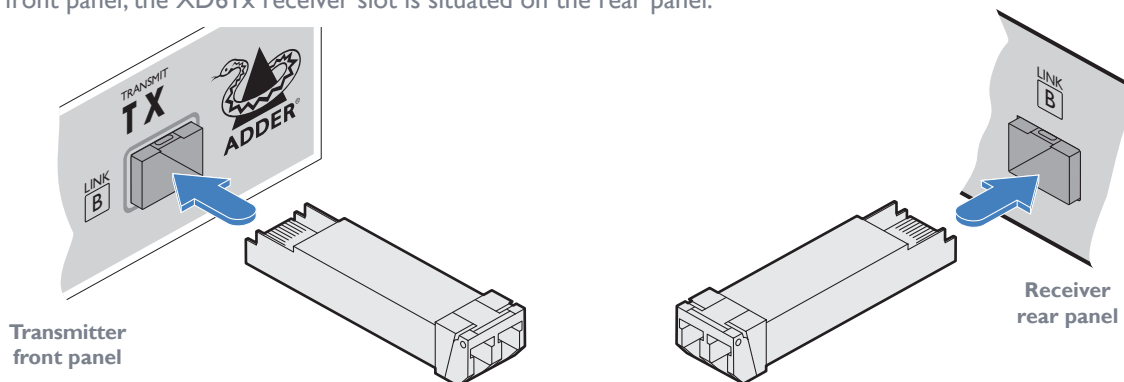
Fiber optic link

Each pair of AdderLink XD61x modules require optional SFP+ fiber optic modules of your choice (single or multi-mode). The fiber optic cable used must match the SFP+ type and also be of a suitable type for the distance being covered. See [Transmission distances](#) for details.

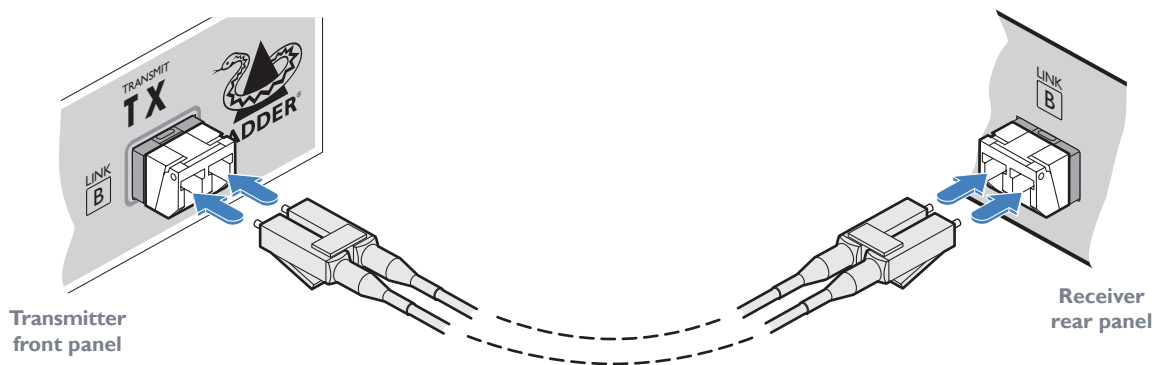
To make the fiber optic link

IMPORTANT: Ensure the power supply is off/disconnected before inserting or removing an SFP+ module.

- 1 Remove an SFP+ module from its protective packing and insert it fully into the empty slot on the AdderLink XD61x module. The XD61x transmitter slot is located on the front panel; the XD61x receiver slot is situated on the rear panel:



- 2 Repeat for the other SFP+ module on the other module.
- 3 For each SFP+ module, remove the black rubber insert that protects the sensors.
- 4 If fitted, remove the dual inserts that protect the fiber optic connectors.
- 5 Insert the fiber optic connectors into the SFP+ module so that they click into place:



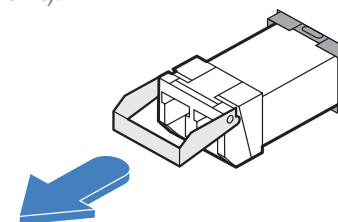
- 6 Repeat steps 4 and 5 at the other end.



Note: In order to maintain a high level of confidence in the fiber optic link, it is recommended that Adder supplied SFPs are used: (SFP-MM-LC-10G or SFP-SM-LC-10G).

To remove an SFP+ module

- 1 If fitted, remove the dual fiber optic connectors from the SFP+ module (press in the release tab of the fiber optic connectors to disengage them).
- 2 Unclip the small extraction lever and open it out (this action releases a locking tab and also provides a grip point).



- 3 Gently pull on the extraction lever to withdraw the SFP+ module from the slot.
- 4 If the SFP+ module and/or fiber optic connector will remain unused for any period of time, be sure to fit the protective inserts to keep the optical interfaces clean.

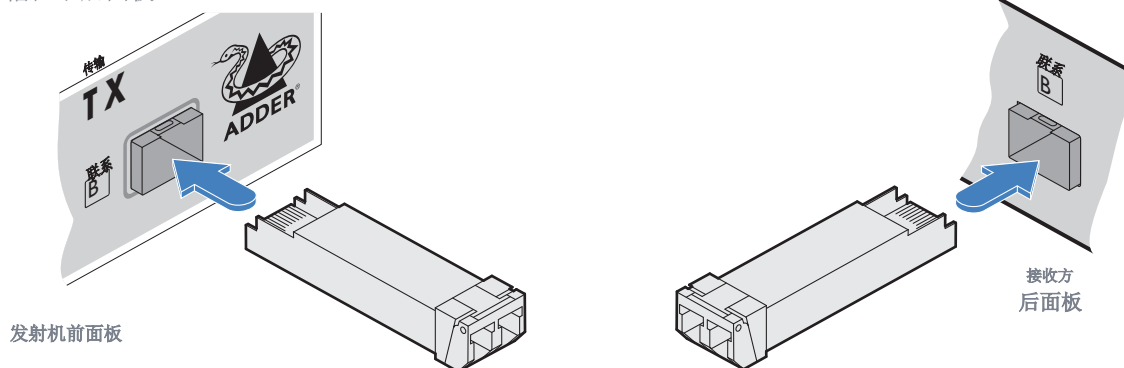
光纤链路

每对AdderLink XD61x模块都需要可选的SFP+光纤模块（单模或多模）。所使用的光纤电缆必须与SFP+类型匹配，而且其类型应适合于所覆盖的距离。有关详细信息，请参阅[传输距离](#)。

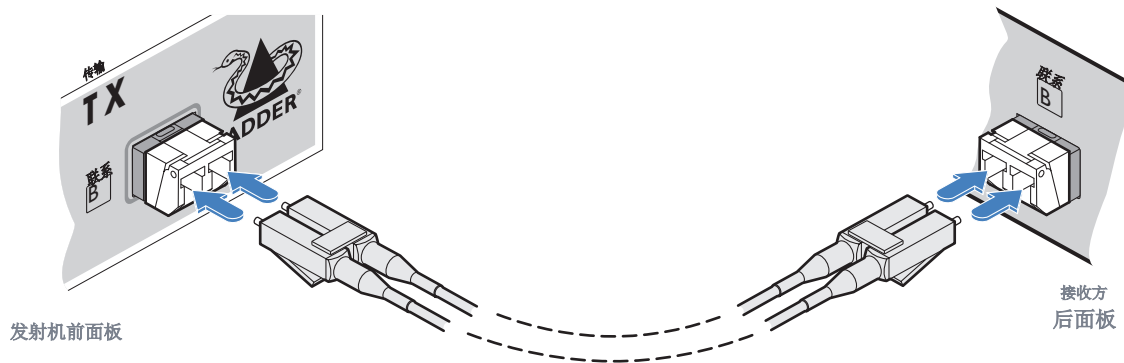
用于建立光纤链路

重要提示：在插入或拔出SFP+模块之前，请确保电源已关闭/断开。

- 1 从保护包装中取出一个SFP+模块，并将其完全插入AdderLink XD 61x模块的插槽。XD61x发送器插槽位于前面板，XD61x接收器插槽位于后面板：



- 2 对另一模块上的其他SFP+模块重复上述步骤。
- 3 对于每个SFP+模块，拆下保护传感器的黑色橡胶衬套。
- 4 如果已安装，拆下保护光纤连接器的双层衬垫。
- 5 将光纤连接器插入SFP+模块，使其咔嗒一声卡入到位：



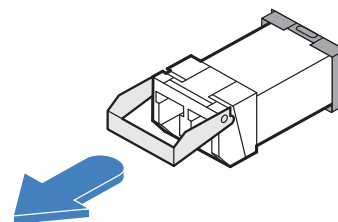
- 6 重复步骤4 以及5个在... 其他目的。



注：为了保持对纤维的高度置信度在光链路中，建议使用Adder提供的SFP（SFP-MM-LC-10G或SFP-SM-LC-10G）。

删除SFP+模块

- 1 如果已安装，从SFP+模块上拆下双光纤连接器（按压光纤连接器的释放卡扣以使其脱离）。
- 2 松开小抽拉杆并将其打开（此操作会释放锁定卡扣，同时提供一个握持点）。



- 3 轻轻拉动提取杆，将SFP+模块从插槽中抽出。
- 4 如果SFP+模块和/或光纤连接器将保持一段时间的闲置状态，请务必安装保护插件以保持光接口的清洁。

Receiver video display(s)

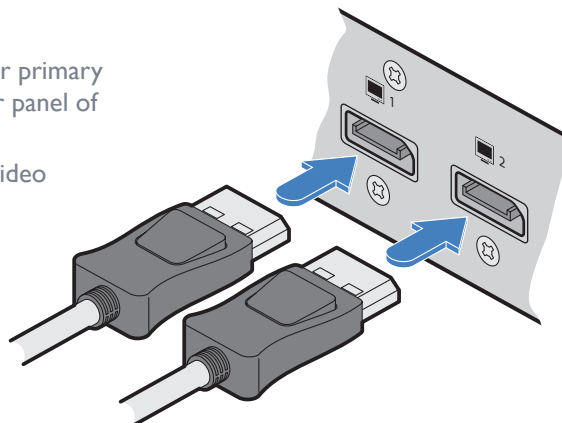
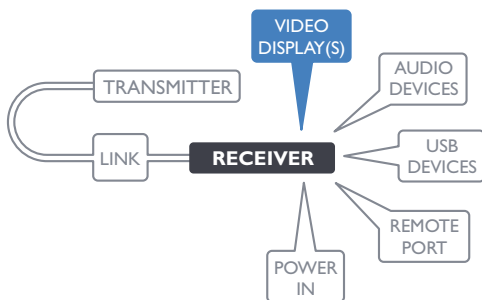
Two DisplayPort sockets are provided on the rear panel of each receiver module. On XD612 models, video streams 1 and 2 are presented at the ports. On XD614 models, either all four possible MST streams are provided at port 1 OR just the first and second streams are provided at ports 1 and 2. See page 20 for details about setting changes.

To connect the video display

- 1 Connect the signal cable from your primary video display to port 1 on the rear panel of the receiver module.
- 2 If used, repeat for the secondary video display on port 2.

To primary video display
or the first of multiple
MST-compliant displays

To secondary
video display



EDID management

The EDID (Extended Display Identification Data) is read from the connected video display at the receiver module; it is then transferred to, and stored within, the transmitter module and then declared to the host computer. If the video display is removed then the cloned EDID stored at the transmitter module will still be presented to the video source.

Maximum video resolutions

The extenders support the following maximum video resolutions (all at 60 fps):

	Fiber (up to 4km)	CATx (up to 100m)
XD612	1 display at 1920 x 1200 2 displays at 1920 x 1200	1 display at 1920 x 1200 2 displays at 1920 x 1200
XD614	1 display at 4096 x 2160 2 displays at 2560 x 1600 3 displays at 1920 x 1200 4 displays at 1920 x 1200	1 display at 4096 x 2160 2 displays at 2560 x 1600 3 displays at 1920 x 1200 4 displays at 1920 x 1200

Receiver audio devices

The receiver module can support multiple analog audio devices, such as stereo headphones, a mono microphone or line-level in/out connections.

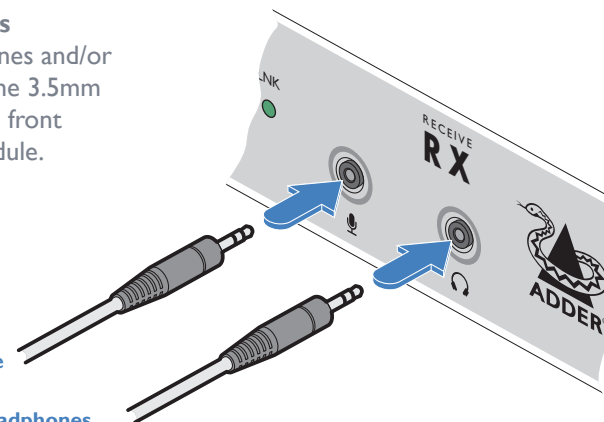
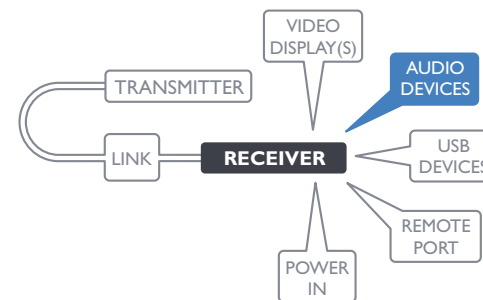
USB audio is also supported when the left hand USB socket on the rear panel is connected to the computer. The audio signals received from the computer will be transferred to the analog audio sockets on the receiver. USB audio will take precedence over the 3.5mm audio jacks when both sources are present.

To connect audio devices

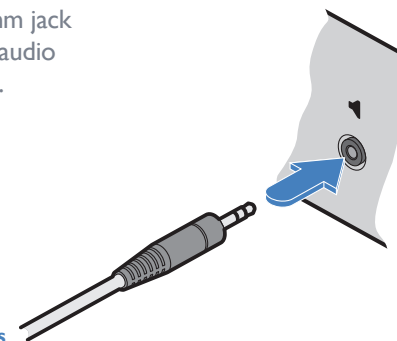
- 1 Connect stereo headphones and/or a mono microphone to the 3.5mm jack audio sockets on the front panel of the receiver module.

From mono microphone

To stereo headphones



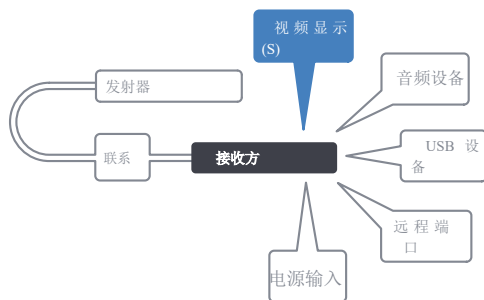
To speakers



Note: Digital audio sent via the DisplayPort connectors are passed straight through from the transmitter to the receiver ports and remain completely separate from the analog audio signals.

接收器视频显示器(s)

每个接收器模块的后面板上提供两个DisplayPort插座。XD612型号在端口1和端口2上显示视频流1和2。XD614型号在端口1上提供所有四种可能的MST流，或者在端口1和端口2上仅提供第一和第二流。有关设置更改的详细信息，请参阅第20页。



连接视频显示器

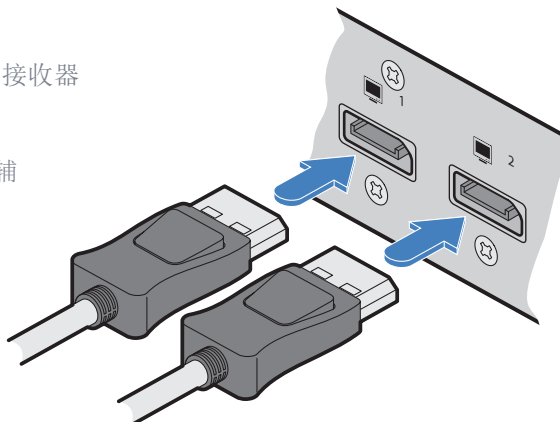
- 1 将主视频显示器的信号线连接到接收器

模块后面板上的端口1。

- 2 如果使用该功能，则对端口2上的辅助视频显示器重复此操作。

用于主视频显示器或符合MST标准的多个显示器中的第一个显示器

转为次要视频显示器



EDID管理

从接收器模块的连接视频显示器中读取EDID（扩展显示识别数据），然后将其传输到发送器模块并存储在其中，然后向主机计算机声明。如果移除了视频显示器，则发送器模块中存储的克隆EDID仍将呈现给视频源。

最大视频分辨率

扩展器支持以下最大视频分辨率（所有均为60 fps）：

	光纤（最长4公里）	CATx（最高100m）
XD612	1个显示器，1920 x 1200 2个显示器，1920 x 1200	1个显示器，1920 x 1200 2个显示器，1920 x 1200
XD614	1个显示器，4096 x 2160 2个显示器，2560 x 1600 3个显示器，1920 x 1200 4个显示器，1920 x 1200	1个显示器，4096 x 2160 2个显示器，2560 x 1600 3个显示器，1920 x 1200 4个显示器，1920 x 1200

接收器音频设备

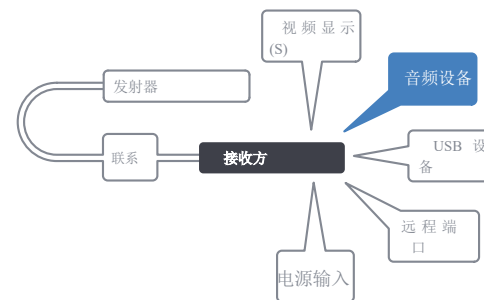
接收器模块可支持多个模拟音频设备，例如立体声耳机、单声道麦克风或线路电平输入/输出连接。

当后板上的左USB接口与计算机连接

时，也支持USB音频。从计算机接收的

音频信号将被传输到模拟音频接口上。

当两者同时存在时，USB音频将优先于3.5毫米音频插孔资源已存在。

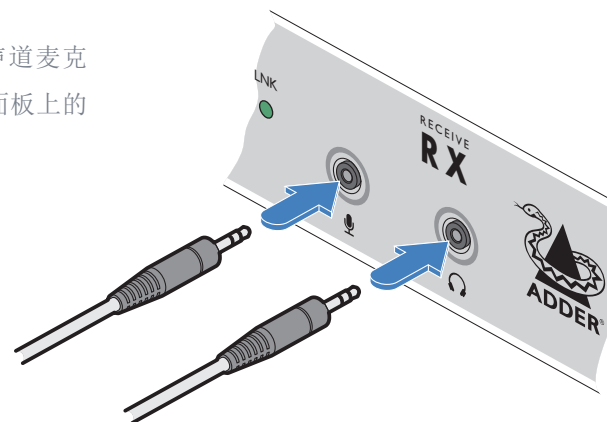


连接音频设备

- 1 将立体声耳机和/或单声道麦克风

风连接到接收器模块前面板上的

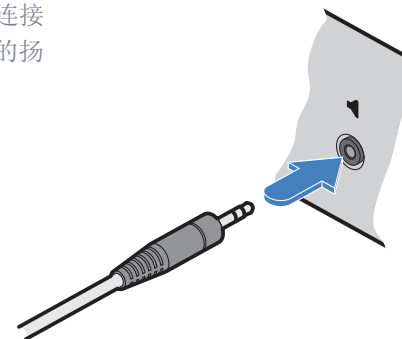
3.5mm音频插孔。



从单声道麦克风到立体声耳机

- 2 可选择使用后面板的3.5毫米插孔连接线路电平音频设备，例如带功放的扬声器。

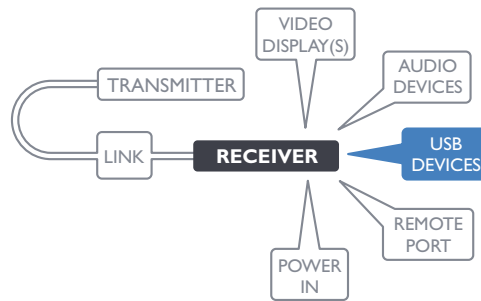
致发言人



注意：通过DisplayPort连接器发送的数字音频从发送端口直接传递到接收端口，并且与模拟音频信号完全分离。

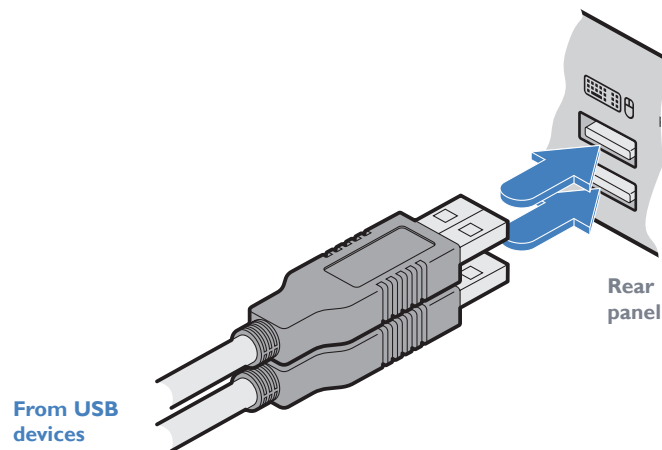
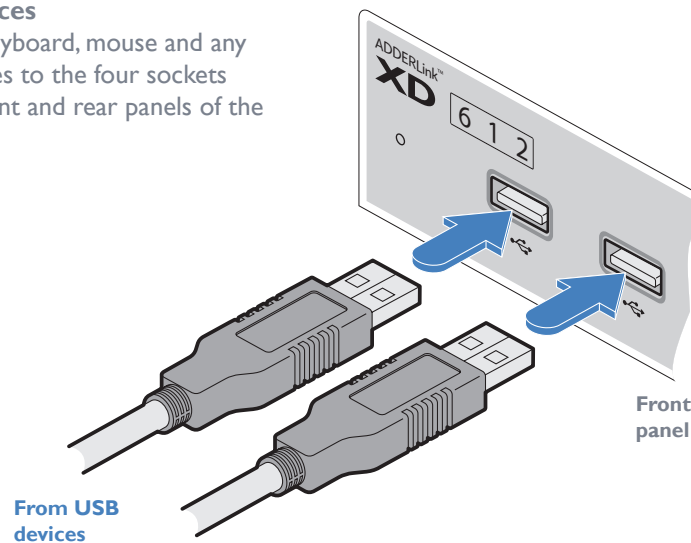
Receiver USB devices

Each receiver module contains a USB hub that can support multiple v2.0 or v1.1 USB HID (Human Interface Device) peripherals.



To connect USB devices

- 1 Connect your USB keyboard, mouse and any other two USB devices to the four sockets distributed on the front and rear panels of the receiver module.



Receiver Remote port

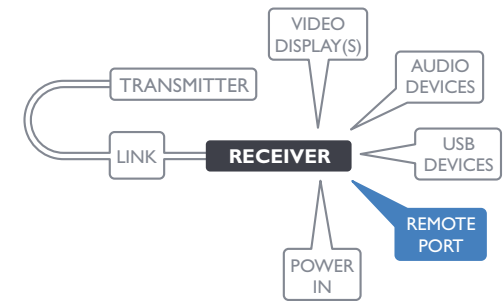
The Remote port has a dual role, it can either:

- Allow an optional remote control to be connected to the module, or
- Create an RS232 serial connection with the receiver module.

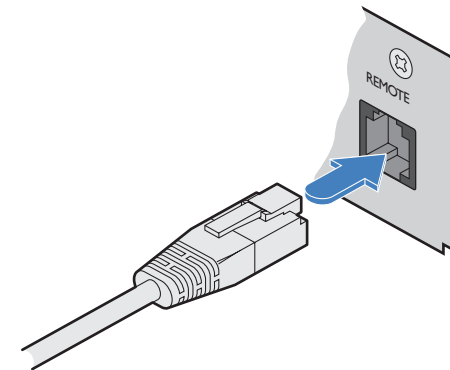
When serial devices are attached to the Remote ports on the transmitter and receiver modules, the units transparently convey the signals between them at rates up to 115200 baud - no serial configuration is required. An optional serial cable (part number: VSC50) is available from Adder.

To connect the Remote port

- 1 Use the optional serial cable (VSC50) to link the Remote port on the rear panel of the transmitter module with a vacant RS232 serial port on your host computer.



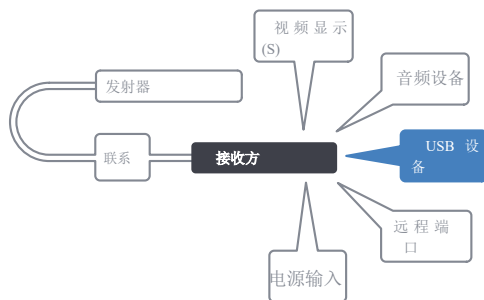
From your serial device



Please see [Appendix I](#) for pin-out details of the Remote port.

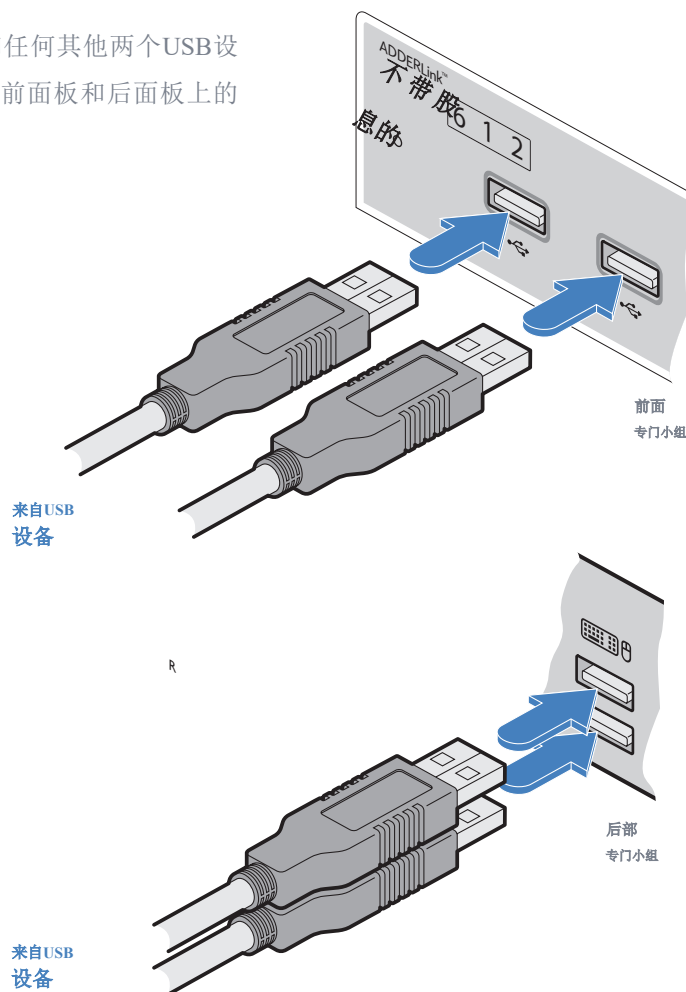
接收器USB设备

每个接收器模块包含一个USB集线器，可支持多个v2.0或v1.1 USB HID（人机接口设备）外围设备。



连接USB设备

1 将USB键盘、鼠标和任何其他两个USB设备连接到接收器模块前面板和后面板上的四个插槽。



接收器远程端口

远程端口具有双重作用，它可以：

- 允许可选的遥控器连接到模块，或
- 与接收器模块建立RS232串行连接。

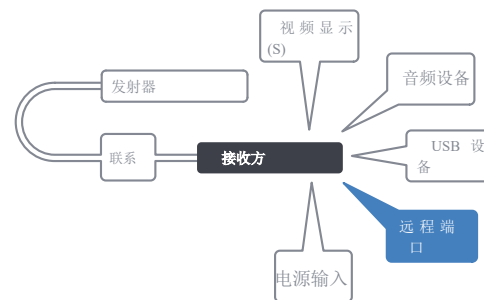
当串行设备连接到发送器的远程端口时

接收器模块，单元之间以高达115200波特率透明地传送信号，不需要串行配置。

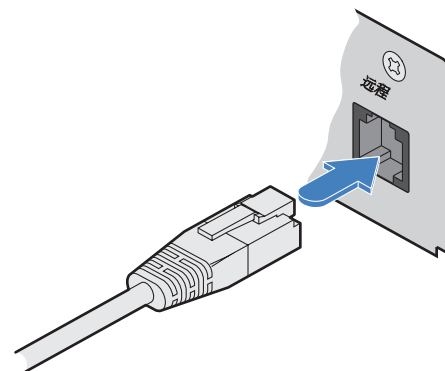
可选的串行电缆（部件号：VSC50）可从Adder获得。

连接远程端口

1 使用可选的串行电缆（VSC50）将发送器模块后面板上的远程端口与主机计算机上空闲的RS232串行端口连接。



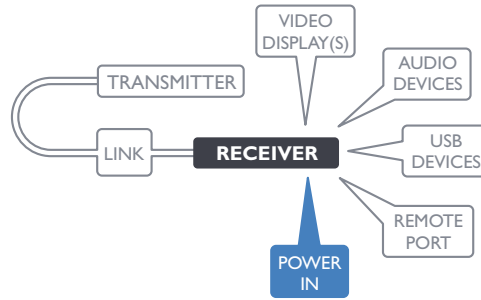
来自您的串行设备



请参见附录1中的远程端口引脚详细信息。

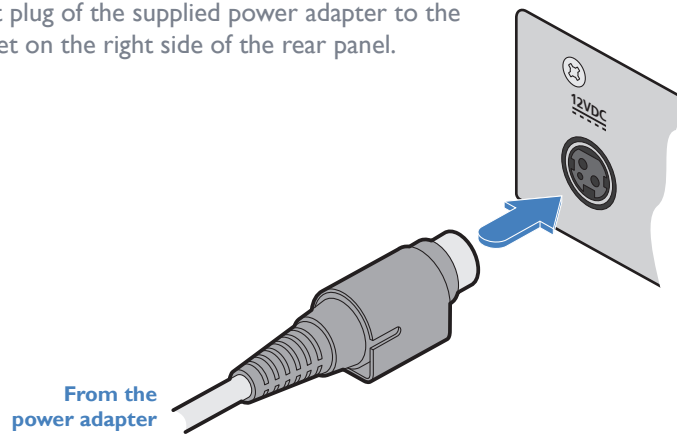
Receiver power connection

There is no on/off switch on either of the AdderLink XD61x modules, so operation begins as soon as power is applied. The power adapters supplied with the modules use locking-type plugs to help prevent accidental disconnections; please follow the instructions shown on the right whenever disconnecting a power adapter.

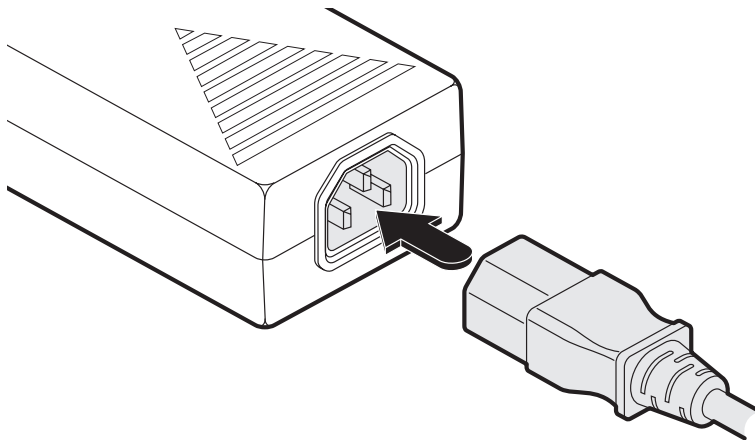


To connect the power adapter

- 1 Attach the output plug of the supplied power adapter to the power input socket on the right side of the rear panel.



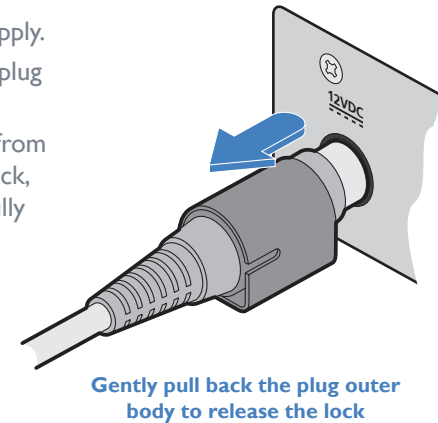
- 2 Connect the IEC connector of the supplied country-specific power cord to the socket of the power adapter.



- 3 Connect the power cord to a nearby mains supply socket.

To disconnect the power adapter

- 1 Isolate the power adapter from the mains supply.
- 2 Grasp the outer body of the power adapter plug where it connects with the module.
- 3 Gently pull the body of the outer plug away from the module. As the body of the plug slides back, it will release from the socket and you can fully withdraw the whole plug.

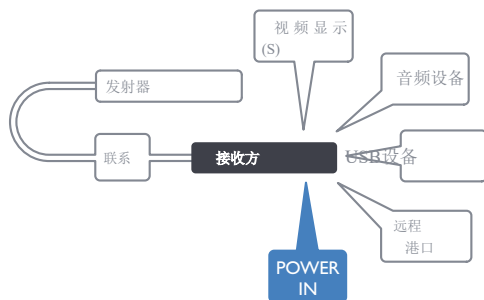


IMPORTANT: Please read and adhere to the electrical safety information given within the supplied safety leaflet. In particular, do not use an unearthed power socket or extension cable.

Note: Both the modules and the power supplies generate heat when in operation and will become warm to the touch. Do not enclose them or place them in locations where air cannot circulate to cool the equipment. Do not operate the equipment in ambient temperatures exceeding 40 degrees Centigrade. Do not place the products in contact with equipment whose surface temperature exceeds 40 degrees Centigrade.

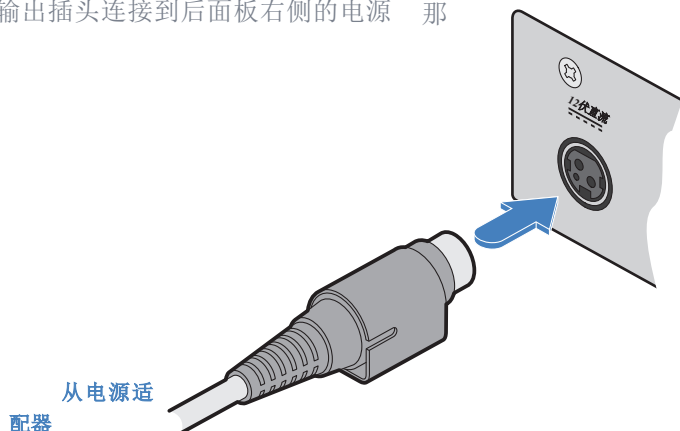
接收器电源连接

AdderLink XD61x模块均没有开关，因此只要通电，操作就会立即开始。随模块提供的电源适配器使用锁定型插头以帮助防止意外断开电源适配器时，请按照右侧所示的说明进行操作。

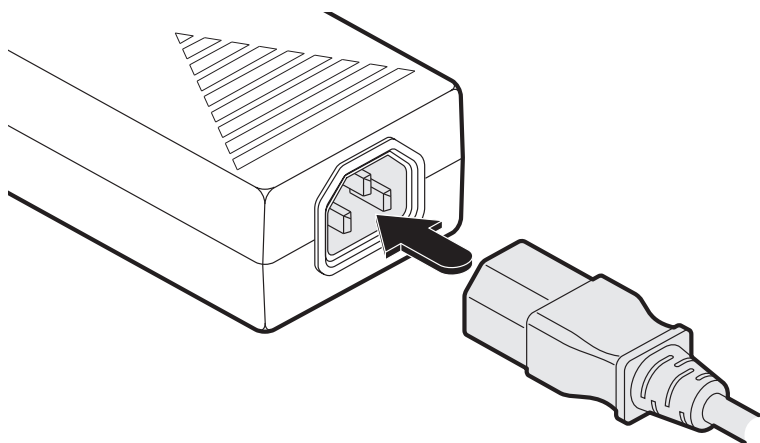


连接电源适配器

- 1 将电源适配器的输出插头连接到后面板右侧的电源输入插座上。



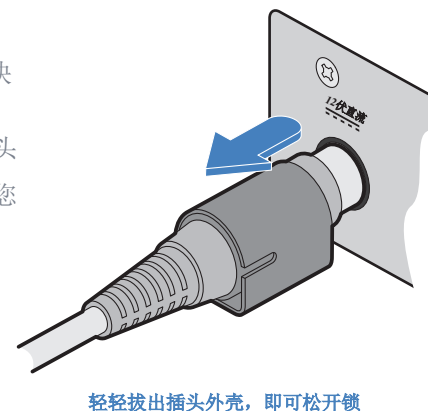
- 2 连接于电源适配器的IEC连接 已提供国别信息 电源线到 套接字



- 3 将电源线连接到附近的市电插座。

断开电源适配器

- 1 将电源适配器从主电源中分离。
- 2 抓住电源适配器插头的外侧，即插头与模块连接处。
- 3 轻轻将外插头的主体从模块中拉出。当插头主体滑回时，它就会从插座中释放出来，您可以完全抽出整个插头。



重要提示：请阅读并遵守安全说明书中提供的电气安全信息。特别注意，切勿使用未接地的电源插座或延长线。

注意：模块和电源在运行时都会产生热量，触摸时会感觉发热。请勿将它们封闭或放置在无法通风的区域。请勿在超过40摄氏度的环境温度下操作设备。请勿将产品与表面温度超过40摄氏度的设备接触。

Configuration



ACCESSING THE DASHBOARD

AdderLink XD61x modules generally configure themselves automatically, collecting EDID information from the attached monitor(s) and passing the details to the host computer. Unless an issue is encountered, the modules will begin working together correctly as soon as they are connected. The front panel indicators provide the primary source of status information, however, there is also a Dashboard popup which provides certain other details on the primary console display.

To access the dashboard

- 1 Using your console keyboard attached to the receiver module, press (and release) the **Ctrl** key **three times** in quick succession (either of the keyboard's Ctrl keys can be used).

In response, the three keyboard indicators will all flash, once per second.

- 2 Press the numeric key **1** located above the main section of the keyboard.

The Dashboard will be displayed, similar to this:

● Link Quality	100%	10G
● Status	OK	
● Firmware	RX:0.00.0112 / TX:0.00.0112	

The example above shows a configuration that is working correctly.

If the communication link was working correctly, but the video signal was lost, it might report as follows:

● Link Quality	100%	10G
● Status	No Video	
● Firmware	RX:0.00.0112 / TX:0.00.0112	

If the communication link was missing then the dashboard would report the issue similar to this:

● Link Quality	0%	10G
● Status	No Link	
● Firmware	RX:0.00.0112 / TX:---	

To exit the dashboard

- Press (and release) the **Ctrl** key **three times** in quick succession and then press the numeric key **1** located above the main section of the keyboard (not the numeric keypad).

CHOOSING RX VIDEO MODE (XD614 models only)

ADDERLink XD61x receivers contain an internal DisplayPort MST hub. On the XD614 models you can choose to either use it or bypass it. When bypassed (default setting), the full combined MST (Multi-Stream Transport) signal received from the transmitter is sent directly to video port 1. If the internal hub is engaged, then the first and second SST video streams (Single-Stream Transport) are decoded and sent to ports 1 and 2 respectively. The two modes are as follows:

- **SST mode** - This mode engages the internal hub and delivers the first and second (SST) video streams to the video ports on the receiver.
- **MST mode** - (Default) This mode bypasses the internal hub and delivers all four possible (MST) video streams directly to video port 1 on the receiver. Port 2 is disabled. Connect to either MST-compliant displays or an MST hub.

To choose the receiver video mode

- 1 Using your console keyboard attached to the receiver module, press (and release) the **Ctrl** key **three times** in quick succession (either of the keyboard's Ctrl keys can be used).

In response, the three keyboard indicators will all flash, once per second.

- 2 Press the numeric key located above the main section of the keyboard (not the numeric keypad) which represents the required mode:

- **8** for SST mode,
- **9** for MST mode.

The current mode will be displayed on the Dashboard next to the link speed, eg SST or MST:

SST	10G
00.0112	

MST	10G
00.0112	

Notes:

- If the mode is changed, this will cause the RX to reboot.
- If you do not press any key within five seconds, or press any key other than the digits 1, 8 or 9 (or once you have successfully chosen an action), the keyboard will revert to normal operation. To use another hotkey function, repeat the whole procedure described above.

The color of the Dashboard's **Link Quality** indicator matches the front panel **LNK** indicator:

- **Red** 0-25% quality
- **Amber** 25-50% quality
- **Yellow** 50-75% quality
- **Green** 75-100% quality

访问控制面板

AdderLink XD61x模块通常会自动完成配置，通过采集连接显示器的EDID信息并将数据传输至主机。只要没有遇到异常情况，这些模块在连接后就能立即协同工作。虽然前面板指示灯是主要的状态显示窗口，但主控制台显示屏上还会弹出仪表盘窗口，提供其他相关详细信息。

访问控制面板

- 1 使用连接到接收器模块的控制台键盘，快速连续三次按下（并释放）**Ctrl**键（可以是键盘上的任一个Ctrl键）。作为响应，三个键盘指示灯将每秒闪烁一次。
- 2 按下键盘主段上方**1**的数字键，将显示类似以下内容的“仪表盘”：



上面的示例显示了一个正常工作的配置。

如果通信链路工作正常，但视频信号丢失，则可能报告如下：



如果通信链路缺失，那么仪表板将报告类似的问题：



退出仪表板

- 快速连续三次按下（并释放）**Ctrl**键，然后按位于键盘主部分上方**1**的数字键（非数字小键盘）。

选择RX视频模式（仅限XD614型号）

ADDERLink XD61x接收器内置DisplayPort多流传输（MST）集线器。在XD614型号中，用户可选择启用或禁用该功能。当启用禁用模式时，默认设置会将发射端接收到的完整多流传输信号直接发送至视频端口1。若启用内置集线器，则会先解码第一、第二单流传输视频流，分别传输至端口1和2。两种工作模式具体如下：

- **SST模式** - 此模式接通内部集线器并将第一和第二（SST）视频流传输至接收器上的视频端口。
- **MST模式**（默认）此模式绕过内部集线器，将所有四个可能的（MST）视频流直接传送到接收器的视频端口1。端口2处于禁用状态。连接到符合MST的显示器或MST集线器。

选择接收方视频模式

- 1 使用连接到接收器模块的控制台键盘，快速连续三次按下（并释放）**Ctrl**键（键盘上的任一Ctrl键都可以）。作为响应，三个键盘指示灯将每秒闪烁一次。
- 2 按下位于键盘主部分上方的数字键（不是数字小键盘），该键代表所需模式：
 - **8**对于SST模式，
 - **“9 MST”** 模式。

当前模式将显示在仪表盘上，位于链接速度旁边，例如SST或MST：



记下

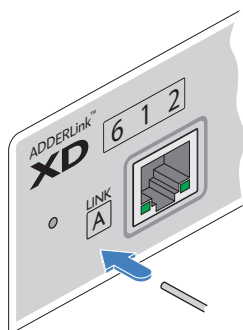
- 如果模式发生改变，这将导致RX重新启动。
- 如果在五秒钟内不按任何键，或按除数字1、8或9以外的任何键（或在成功选择一个操作之后），键盘将恢复为正常操作。要使用另一个热键功能，请重复上述整个过程。

仪表板的链路质量指示器的颜色与前面板LNK指示器颜色一致：

- **红色的** 0-25% 质量 25-50%
- **琥珀** 质量 50-75% 质量
- **黄色的**
- **格林** 75-100% 质量

RESETTING A MODULE

On the left side of the front panel of each module, you will find a small reset hole which is used to invoke special functions.



To reset a module

- 1 Use a thin implement, such as a straightened paperclip to press and release the button concealed behind the small hole. The PWR indicator will show **red**.

After a few seconds, the indicator will change from **red** to **green** to show that the reset procedure is complete.

UPGRADING FIRMWARE

Firmware upgrades are periodically made available for products via the Adder website (www.adder.com). Use this procedure to upgrade the firmware in both ADDERLink XD61x extenders.

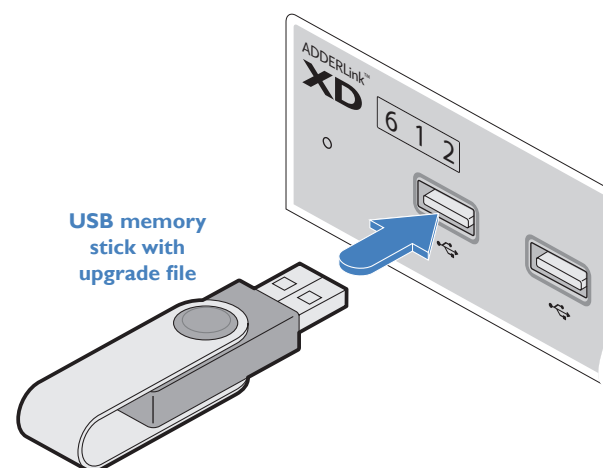
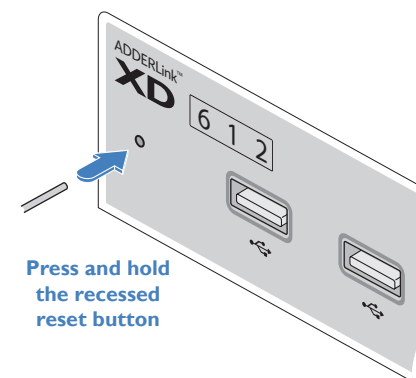
Note: XD612 upgrades require roughly 6 minutes to complete; XD614 upgrades require roughly 11 minutes.

To upgrade the firmware

- 1 Download the appropriate firmware upgrade file from the *Downloads* section of the ADDERLink XD61x product page within the Adder website. Copy the upgrade file to an empty (but FAT32-formatted) USB memory stick.
- 2 Ensure that the transmitter and receiver are linked and powered on. Also check that there are no USB drives inserted in the receiver module's ports.
- 3 On the receiver, press and hold a thin implement, such as a straightened paperclip, in the reset hole until the receiver's STS indicator flashes red/blue. The receiver is now in upgrade mode.
- 4 Wait for the LNK indicator to turn green, signifying that the link has been established. Video from the transmitter should be displayed and the STS indicator will continue to flash red/blue.
- 5 Insert the memory stick containing the upgrade file into the front panel left USB port.

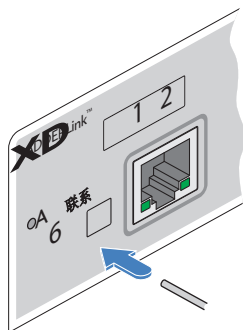
The upgrade should begin and both units will flash their STS indicators red/green to show the upgrade process is in progress. Following a successful upgrade, both units will automatically reboot and run the new firmware. The STS indicator will show green for a copper connection and blue for fiber.

- 6 Display the Dashboard (see page 20) to view the upgrade progress. The Status field will display a message if an error occurs. In an error situation, it may be necessary to reboot the modules to use the existing firmware version.



重置模块

在每个模块前面板的左侧，您会发现一个小复位孔，用于调用特殊功能。



重置模块

- 1 使用一个薄工具，如拉直的回形针来按压和释放隐藏在孔后面的按钮。PWR 指示灯将显示为**红色**。几秒钟后，指示灯将从**红色**变为**绿色**，表示复位过程完成。

升级固件

通过Adder网站（www.adder.com）定期为产品提供固件升级。使用此步骤升级两个ADDERLink XD61x扩展器中的固件。

注意：XD612升级大约需要6分钟完成；XD614升级大约需要11分钟。

升级固件

- 1 从Adder网站的ADDERLink XD61x 产品页面的 下载 部分下载相应的固件升级文件。将升级文件复制到一个空的（但格式为FAT32）USB存储器中。

- 2 确保发送器和接收器已连接并通电。同时检查接收器中是否插入了USB驱动器模块的端口。

- 3 在接收器上，按住一个薄片将直型回形针等工具插入复位孔，直到接收器的STS指示灯闪烁红/蓝。此时接收器已进入升级模式。

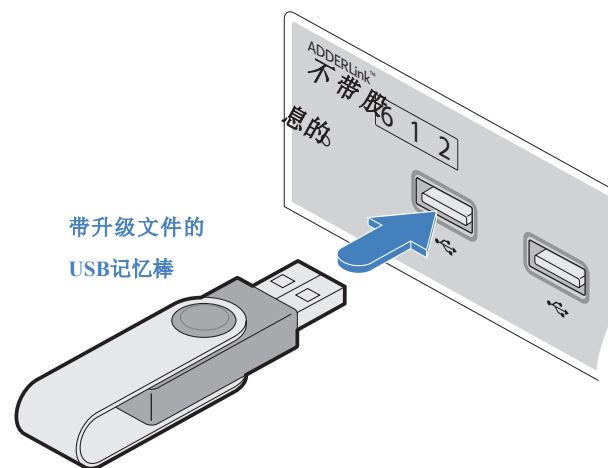
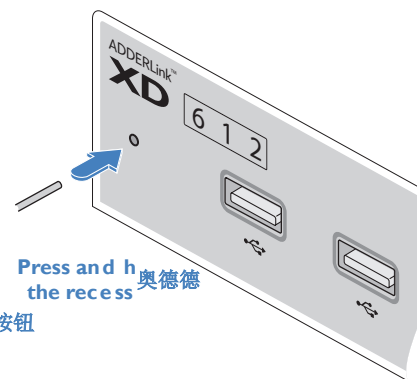
- 4 等待LNK指示灯变为绿色，表示已建立链接。应显示发射器的视频，STS指示灯将继续闪烁红/蓝。

- 5 将包含升级文件的存储棒插入前面板左侧USB端口。

升级应开始，两个单元的STS指示灯将闪红色/

绿色表示升级过程正在进行。成功升级后，两个单元将自动重新启动并运行新固件。对于铜缆连接，STS指示灯将显示绿色，而对于光纤，则显示蓝色。

- 6 显示仪表板（参见第20页）以查看升级进度。如果发生错误，状态字段将显示一条消息。在出现错误的情况下，可能需要重新启动模块以使用现有固件版本。



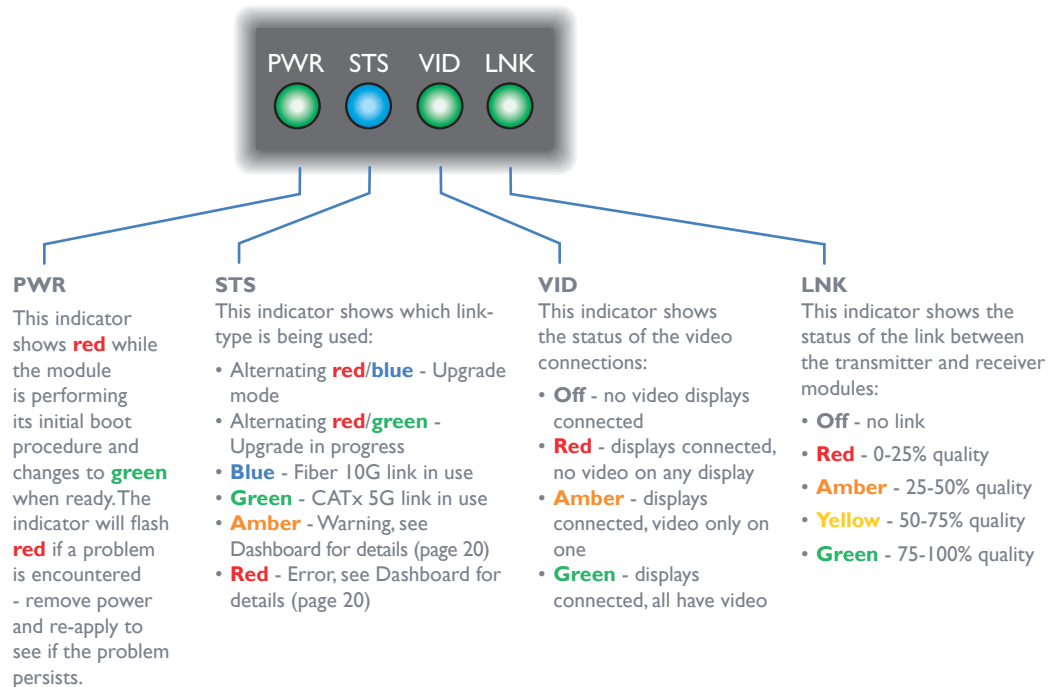
The AdderLink XD61x modules are designed to be transparent in operation; all peripherals should respond exactly as they would when situated next to your host computer.

INDICATORS

The transmitter and receiver modules contain various indicators to provide you with status information. Both modules have four red indicators on their front panels.

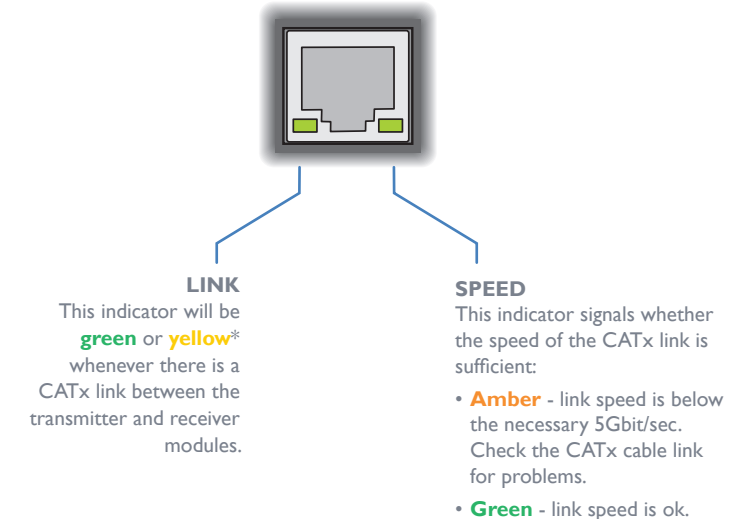
Status indicators

The multi-color status indicators on the front panels of each module mostly behave in the same manner at the same time:



CATx status indicators

The status indicators on the CATx port connector of each module provide further status information when a CATx link is in use:



*The CATx LINK LED will be either yellow or green, depending upon the connector manufacturer used. There is no difference in functionality.

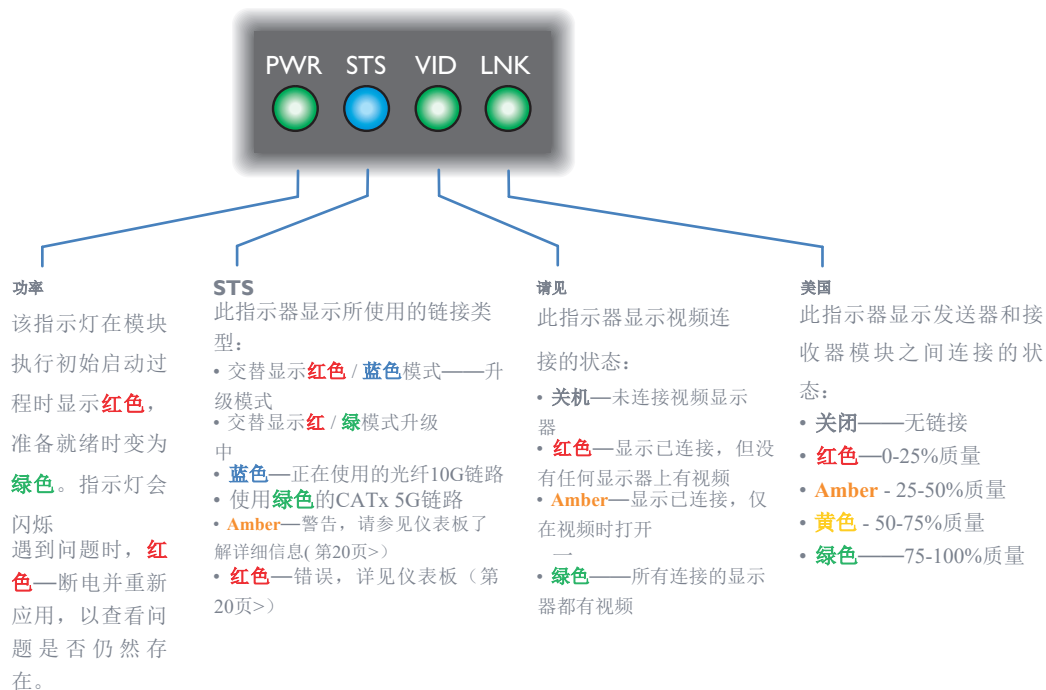
AdderLink XD61x模块的设计使它们在操作上是透明的；所有外围设备应准确响应，就像它们位于主机旁边时一样。

指标

发射器和接收器模块包含各种指示器，用于向您提供状态信息。两个模块前面板上都有四个红色指示器。

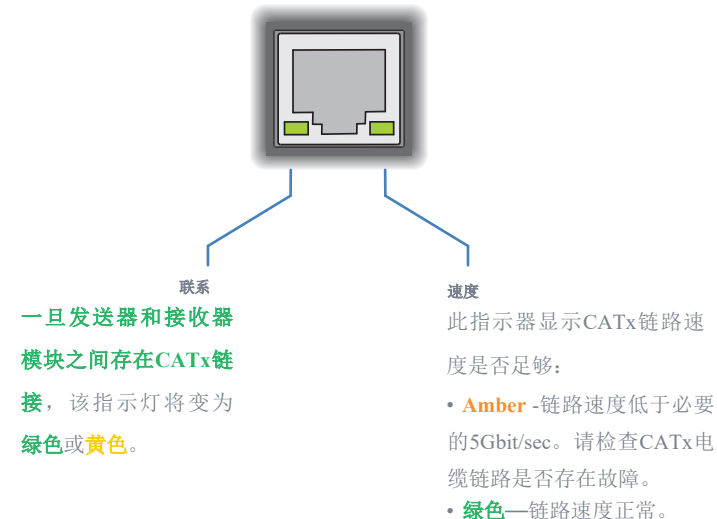
状态指示器

各模块前面板上的多色状态指示灯通常同时以相同的方式工作：



CATx状态指示灯

当CATx链路处于使用状态时，每个模块的CATx端口连接器上的状态指示器会提供进一步的状态信息：



*CATx LINK LED 为黄色或绿色，具体取决于所使用的连接器制造商。二者功能相同。

Further information



This chapter contains a variety of information, including the following:

- Getting assistance - see right
- [Appendix I](#) - Remote (Options) port pin-out

GETTING ASSISTANCE

If you are still experiencing problems after checking the information contained within this guide, then please refer to the Support section of our website:

www.adder.com

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进一步资料

本章包含以下信息：•获取帮助-请参见右侧

- 附录 1 -远程（选项）端口引脚排布图

获取帮助

如果检查本指南中的信息后，您仍然遇到问题，请访问我们的网站，查看“支持”部分：

www.adder.com



安装

配置

业务

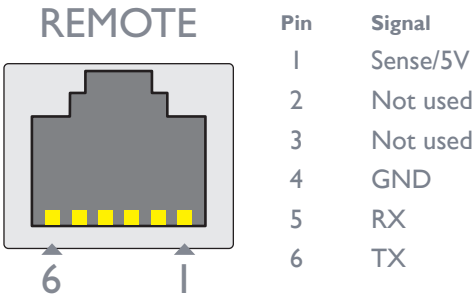
更多信息

索引

APPENDIX I - REMOTE PORT PIN-OUT

The **REMOTE** port uses a 6p6c socket. The pin-out is listed below.

Note: Although the pins labeled 'Not used' is inactive, it is still connected internally and so no links should be made at all to this pin.

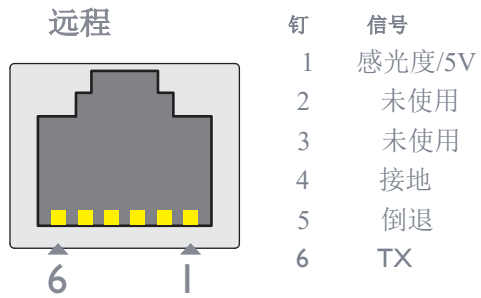


Note: The TX detects presence of an incoming power signal to determine whether 5V should be supplied at the RX.

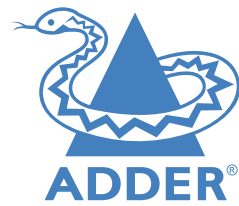
附录1-远程端口引脚排布

REMOTE端口采用6p6c插座，接线排如下。

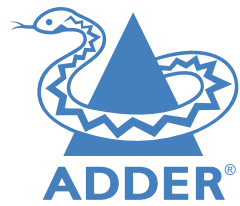
注：虽然标记为“未使用”的引脚处于非活动状态，但其仍处于内部连接状态，因此不应与该引脚建立任何连接。



注：TX检测输入电源信号的存在，以确定是否应在RX处提供5V。



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www.ctxd.com

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