ADDER®

# AdderLink XD150

User Guide


Experts in Connectivity Solutions

ADDER

Extender Solutions

ADDER®

# AdderLink XD150

用户指南


连接解决
方案专家

ADDER®

扩展器
解决方案

# Contents

# 目录

# Introduction

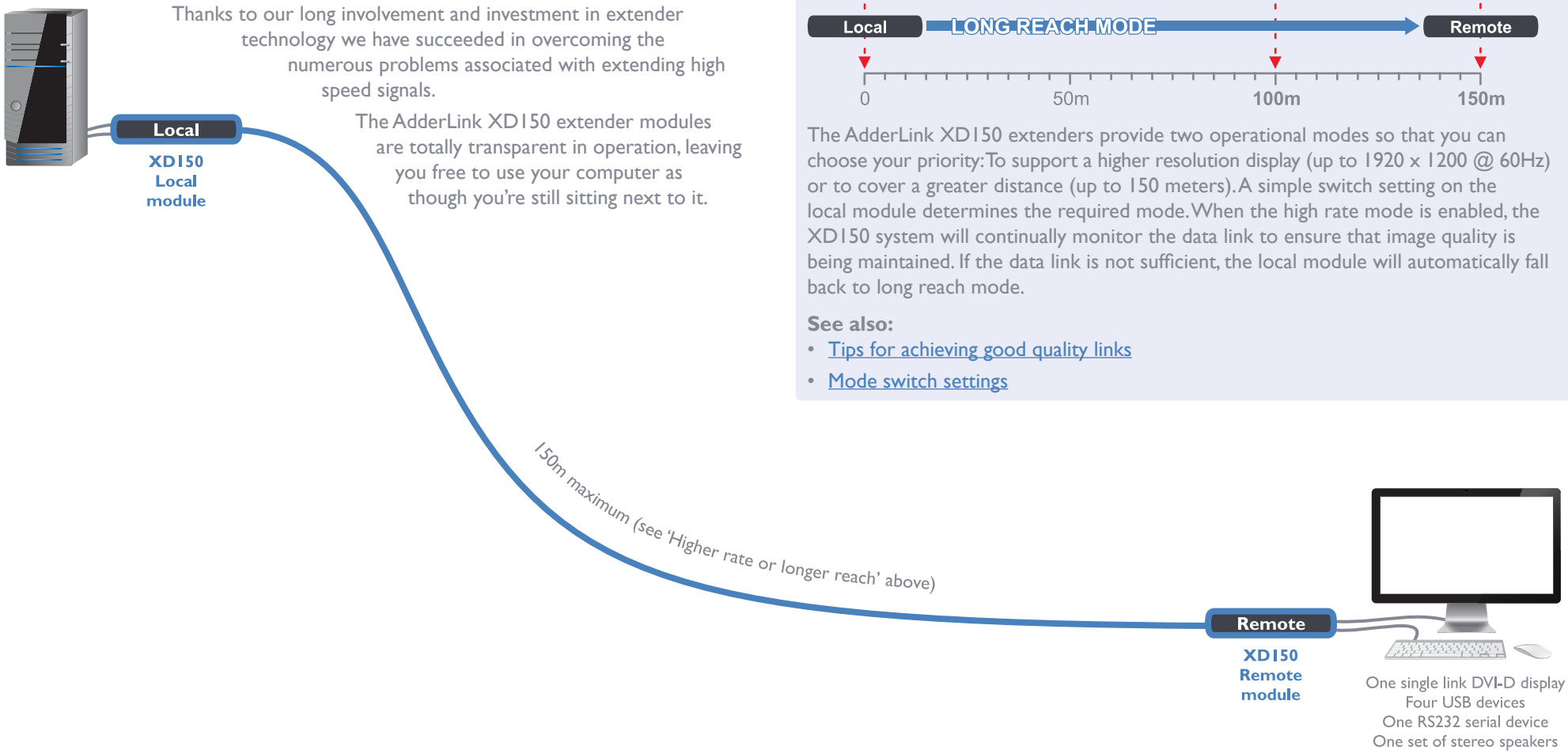
## WELCOME

Thank you for choosing the AdderLink XD150 extender modules. These compact modules allow you to transfer the following connections up to 150 meters from your computer via a single link cable:

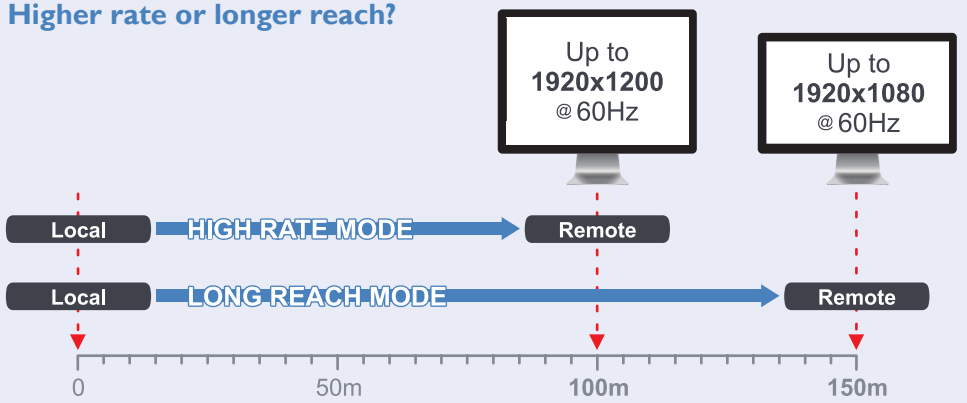
- High quality single link DVI digital video,
- USB keyboard and mouse plus two other USB devices (up to version 2.0),
- An RS232 serial device at speeds up to 115200 baud,
- Stereo speakers.

Thanks to our long involvement and investment in extender technology we have succeeded in overcoming the numerous problems associated with extending high speed signals.

The AdderLink XD150 extender modules are totally transparent in operation, leaving you free to use your computer as though you're still sitting next to it.




### Higher rate or longer reach?




The AdderLink XD150 extenders provide two operational modes so that you can choose your priority: To support a higher resolution display (up to 1920 x 1200 @ 60Hz) or to cover a greater distance (up to 150 meters). A simple switch setting on the local module determines the required mode. When the high rate mode is enabled, the XD150 system will continually monitor the data link to ensure that image quality is being maintained. If the data link is not sufficient, the local module will automatically fall back to long reach mode.

**See also:**

- Tips for achieving good quality links
- Mode switch settings

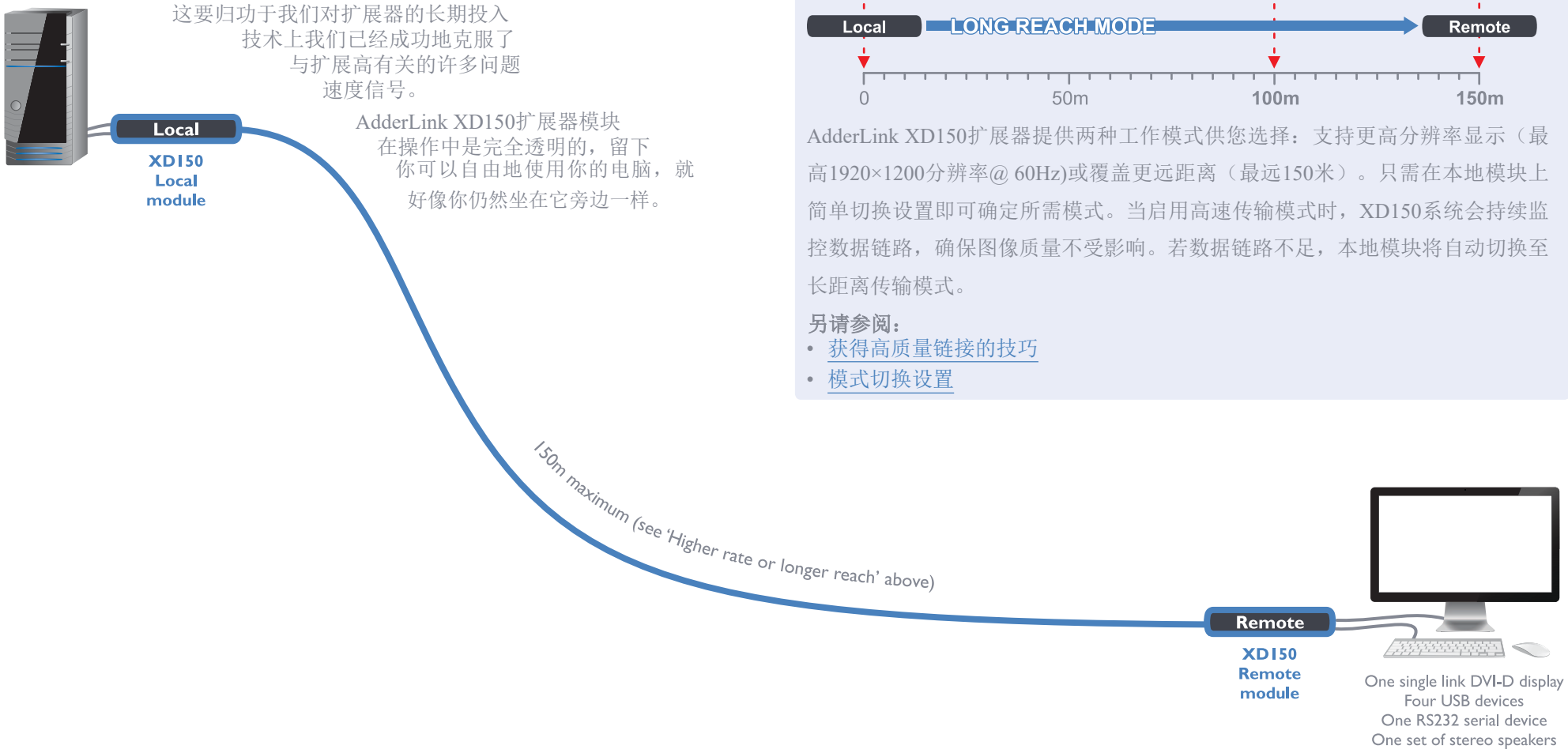
## 欢迎

感谢您选择AdderLink XD150扩展器模块。这些紧凑型模块允许您通过单个链路电缆将以下连接从计算机传输到150米远的地方：

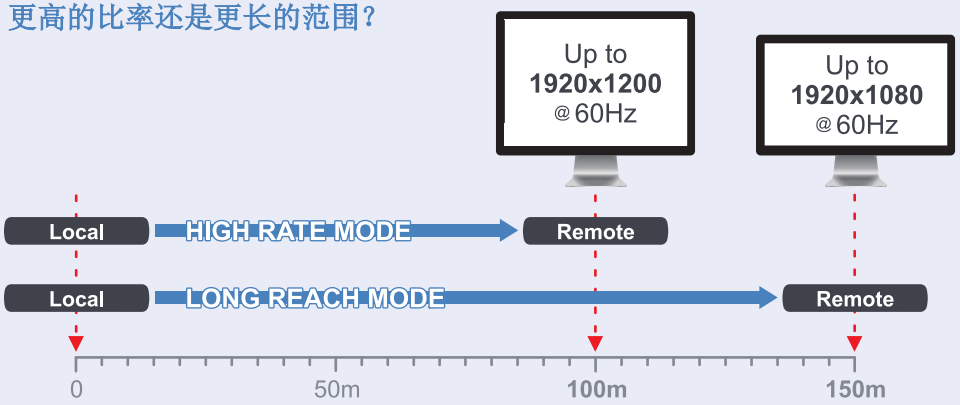
- 高质量单链路DVI数字视频，
- USB键盘和鼠标以及另外两个USB设备（最高版本2.0），
- RS232串行设备，速度高达115200波特，
- 立体声扬声器。

这要归功于我们对扩展器的长期投入技术上我们已经成功地克服了与扩展高有关的许多问题速度信号。

AdderLink XD150扩展器模块在操作中是完全透明的，留下你可以自由地使用你的电脑，就好像你仍然坐在它旁边一样。




## 更高的比率还是更长的范围？




AdderLink XD150扩展器提供两种工作模式供您选择：支持更高分辨率显示（最高1920×1200分辨率@ 60Hz)或覆盖更远距离（最远150米）。只需在本地模块上简单切换设置即可确定所需模式。当启用高速传输模式时，XD150系统会持续监控数据链路，确保图像质量不受影响。若数据链路不足，本地模块将自动切换至长距离传输模式。

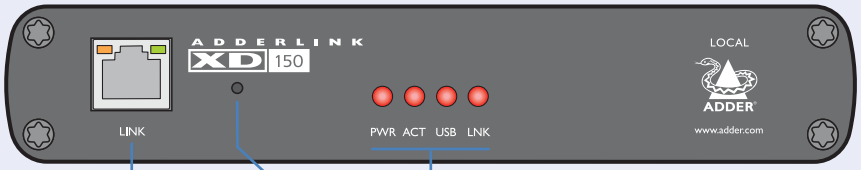
**另请参阅：**

- 获得高质量链接的技巧
- 模式切换设置

# ADDERLINK XD150 FEATURES

The local and remote modules are contained within slimline metal casings that measure just 169 x 116 x 31mm.

## Local module




**CATx link to remote module**
Do not connect to network devices of any kind. See Local data link connection for further details.

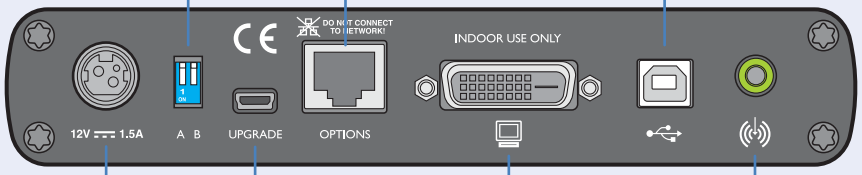
**Recessed reset button**

**Status indicators**
These provide visual confirmation of various system functions. See Indicators for further details.

**Mode switches**
These allow you to determine specific behaviors. See Mode switch settings for further details.

**Options port**
Used for RS232 serial devices. See Local serial port connection for further details.

**USB port**
Connects to a USB port on your computer. See Local USB connection for further details.



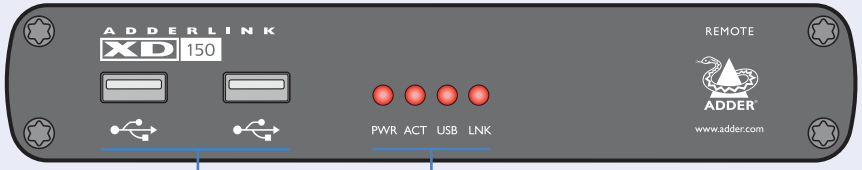

**Power input**
See Local power connection for further details.

**Upgrade port**
Used for firmware upgrades to both modules. See Firmware upgrades for further details.

**Video port**
Connects to the DVI-D video output port of your computer. See Local video connection for further details.

**Audio port**
Connects to the speaker/audio output port of your computer. See Local audio connection for further details.

## Remote module

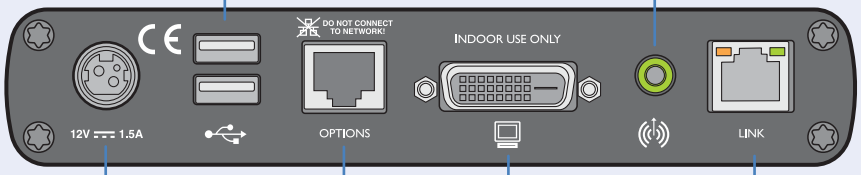



**USB ports**
Connect your USB keyboard, mouse and other devices. See Remote USB connections for further details.

**Status indicators**
These provide visual confirmation of various system functions. See Indicators for further details.

**USB ports**
Connect your USB keyboard, mouse and other devices. See Remote USB connections for further details.

**Audio port**
Connects to your speakers. See Remote audio connection for further details.




**Power input**
See Remote power connection for further details.

**Options port**
Used for RS232 serial devices. See Remote serial port connection for further details.

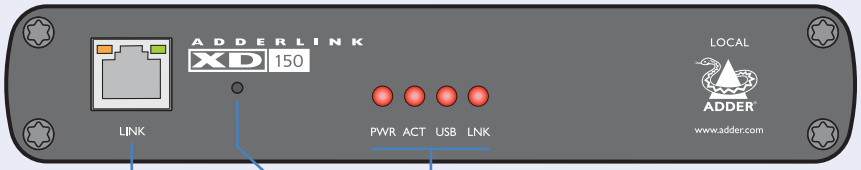
**Video port**
Connects to your DVI-D video display. See Remote video connection for further details.

**CATx link to local module**
Do not connect to network devices of any kind. See Remote data link connection for further details.

## ADDERLINK XD150功能

本地和远程模块包含在纤薄的金属外壳中，尺寸仅为169 x 116 x 31mm。

### 本地模块




**CATx 与 远 程 模块的连接**
请勿连接任何网络设备。请参阅本地数据链路连接为了了解详情

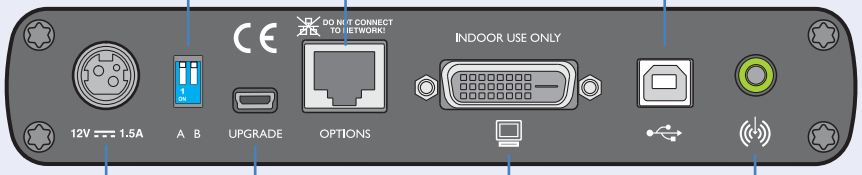
**凹陷复原按钮**

**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。

**模式切换**
这些参数允许您确定特定的行为。有关详细信息，请参阅模式切换设置。

**选项端口**
用于RS232串行设备。请参阅有关详细信息，请查看本地串行端口连接。

**USB端口**
连接到计算机上的USB端口。有关详细信息，请参阅“本地USB连接”。



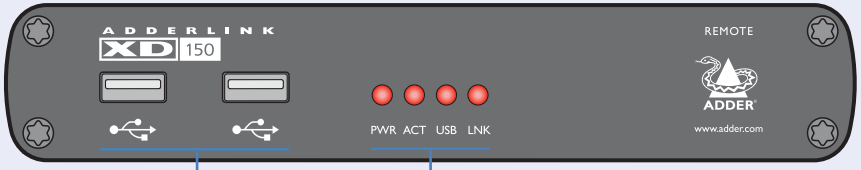

**电源输入**
更多详细信息请参见本地电源连接。

**升级端口**
用于对两个模块进行固件升级。有关详细信息，请参阅固件升级。

**视频端口**
连接到计算机的DVI-D视频输出端口。有关详细信息，请参阅本地视频连接。

**音频端口**
连接到计算机的扬声器/音频输出端口。有关详细信息，请参阅本地音频连接。

### 远程模块

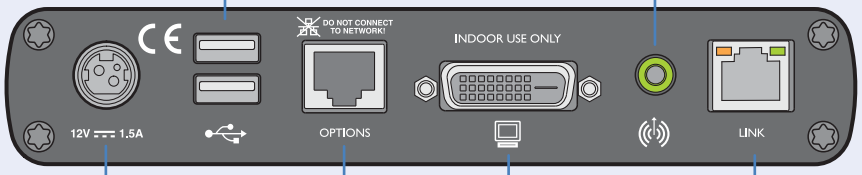



**USB端口**
连接USB键盘、鼠标和其他设备。有关详细信息，请参阅远程USB连接。

**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。

**USB端口**
连接您的USB键盘、鼠标和其他设备。请参阅远程USB连接为了了解详情

**音频端口**
连接到你的扬声器。请参阅有关详细信息，请进行远程音频连接。




**电源输入**
查看远程有关详细信息，请电源连接。

**选项端口**
用于RS232串行设备。请参阅远程串行端口连接为了了解详情

**视频端口**
连接到DVI-D视频显示器。请参阅有关详细信息，请进行远程视频连接。

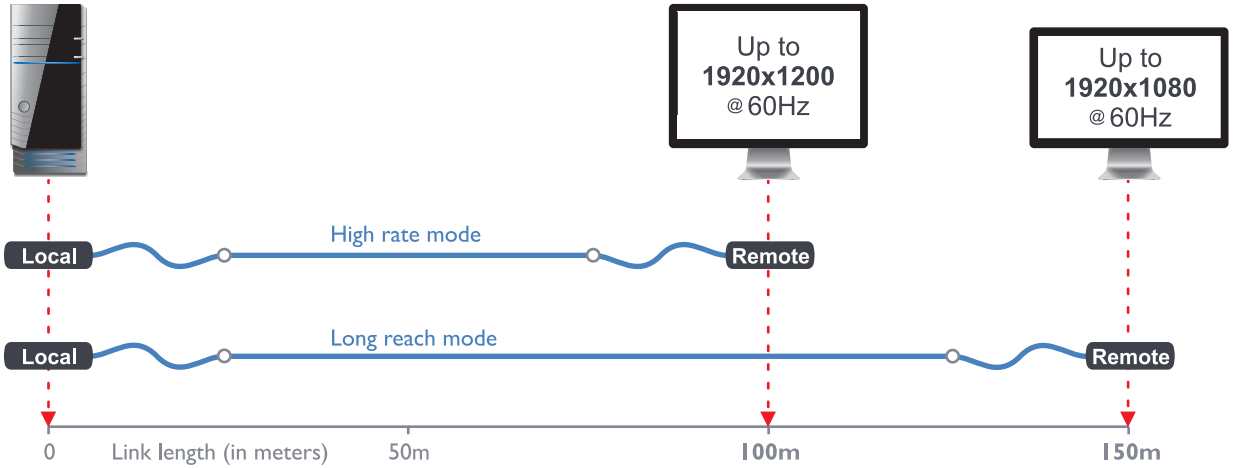
**CATx与本地模块的连接**
请勿连接到任何网络设备。有关详细信息，请参阅远程数据链接连接。

## TIPS FOR ACHIEVING GOOD QUALITY LINKS

Due to the large volumes of data that must be transferred between the local and remote modules, every AdderLink XD150 installation is highly dependent upon good quality CATx cable links. Video performance is particularly reliant on high speed communication channels. For this reason, the AdderLink XD150 units test the link quality to determine which of two transfer modes can be supported: High rate or Long reach.

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.




**High rate mode**
- CAT7a solid core bulk cable
- 23AWG (Ø 0.574mm) or thicker cores
- S/FTP, S/STP or PiMF screening
- Maximum of two CAT7a patch connections

**Long reach mode**
- CAT7a, CAT6a or CAT5e solid core bulk cable
- 24AWG (Ø 0.5106mm) or thicker cores
- U/UTP, F/UTP or better screening
- Maximum of two CAT7a patch connections

### Patch cables

As mentioned above, patch links affect performance. For each additional break/patch within a run, you will need to reduce the distance given above by roughly 5 meters.

For best results, patch cables should be of type CAT 7a and be less than 2 meters in length. If patch cables are greater than 2 meters, then they must be CAT 7a.

Adder recommend the following CAT 7 shielded, foiled, twisted pair cables:

- Flexible patch cable Daetwyler 7702 (26AWG S/FTP)
- Bulk cable Daetwyler 7120 (23AWG S/FTP)

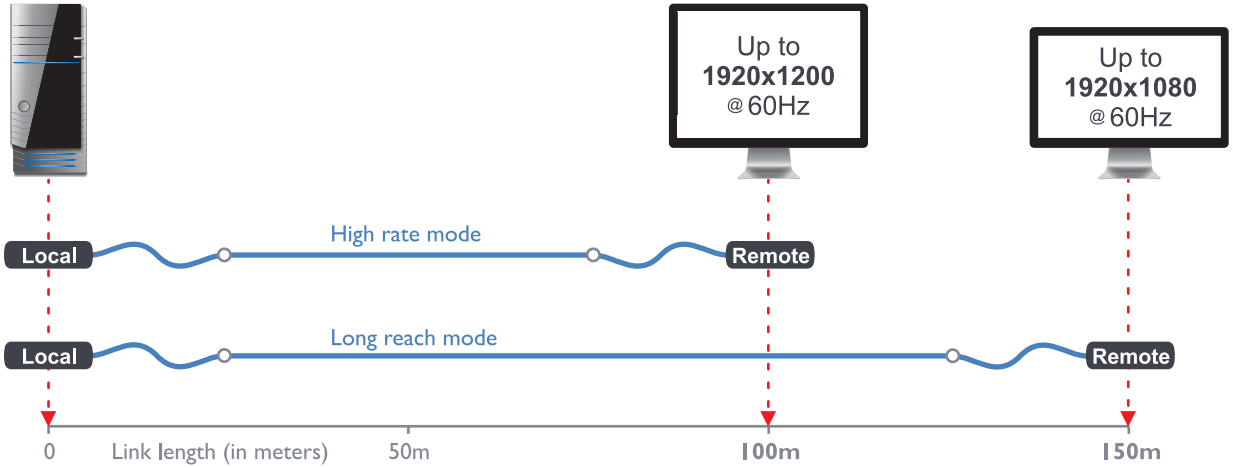
Please see Appendix 2 - Link cable interference protection for details about cable screening and shielding.

## 获得良好质量链接的提示

由于本地和远程模块之间必须传输大量数据，每个AdderLink XD150安装都高度依赖高质量的CATx电缆链路。视频性能尤其依赖于高速通信通道。因此，AdderLink XD150单元会测试链路质量，以确定可以支持两种传输模式中的哪一种：高速或长距离。

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。




**高速模式**

- CAT7a实心芯体成缆电缆
- 23AWG（Ø0.574mm)或更厚芯线
- S/FTP、S/STP或PiMF筛选
- CAT7a补丁连接最多两个

**长距离模式**

- CAT7a、CAT6a或CAT5e实心芯线成缆电缆
- 24AWG（Ø0.5106mm)或更厚的芯线
- U/UTP、F/UTP或更优屏蔽
- CAT7a补丁连接最多两个

## 补丁电缆

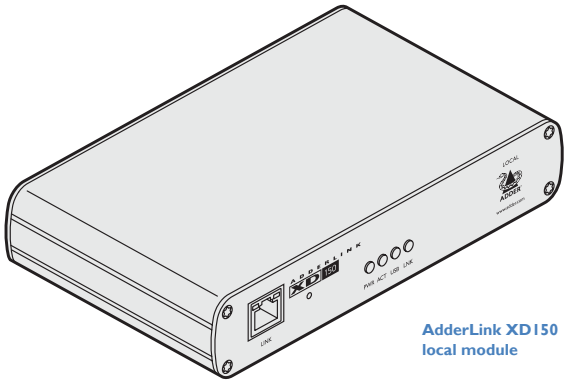
如上所述，跳线会影响性能。在一次运行中，每增加一个断点/跳线，就需要将上文给出的距离减少大约5米。为了获得最佳效果，跳线应为CAT 7a型且长度小于2米。如果跳线超过2米，则必须使用CAT 7a型。

Adder建议使用以下CAT 7屏蔽箔层绞合双绞线电缆：

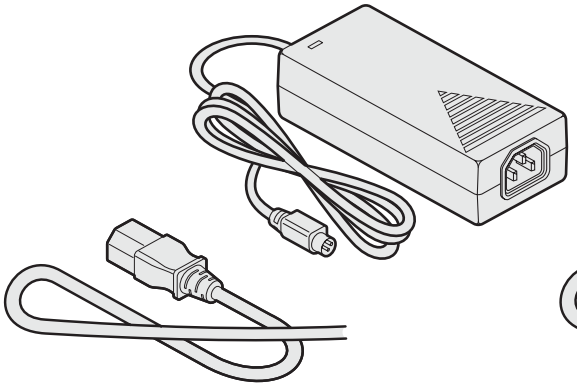
- 柔性跳线电缆Daetwyler 7702（26AWG S/FTP）
- 大宗电缆　　Daetwyler 7120 (23AWG S/FTP)

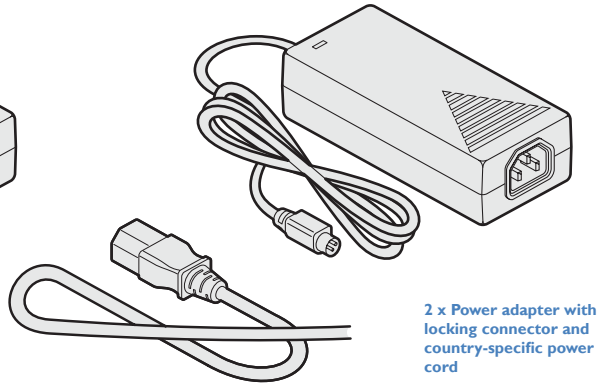
有关电缆屏蔽和屏蔽的详细信息，请参见附录2-链路电缆干扰保护。

# SUPPLIED ITEMS



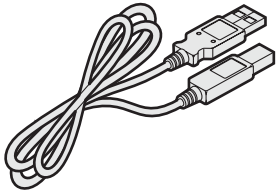
**AdderLink XD150 local module**



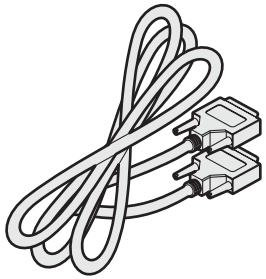


**2 x Power adapter with locking connector and country-specific power cord**

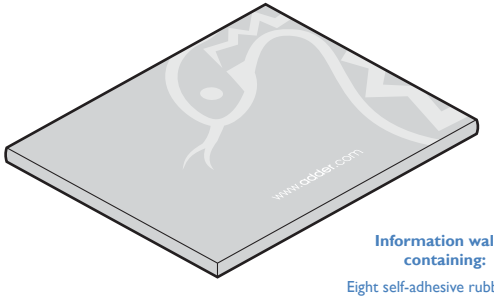
**AdderLink XD150 remote module**



**USB cable 2m (type A to B)**

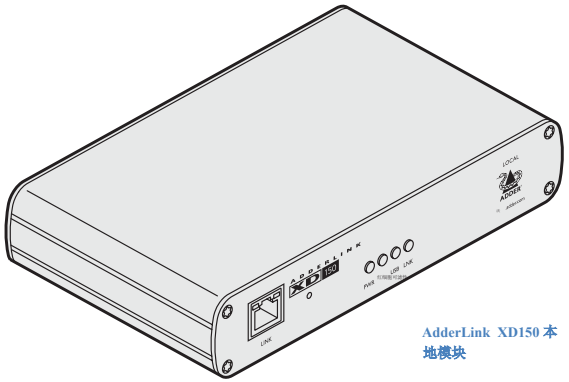


**Video cable DVI-D to DVI-D**

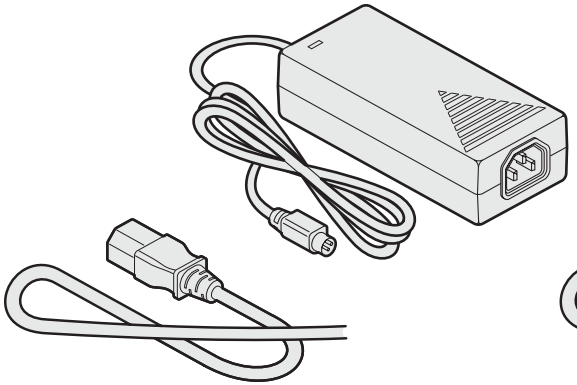


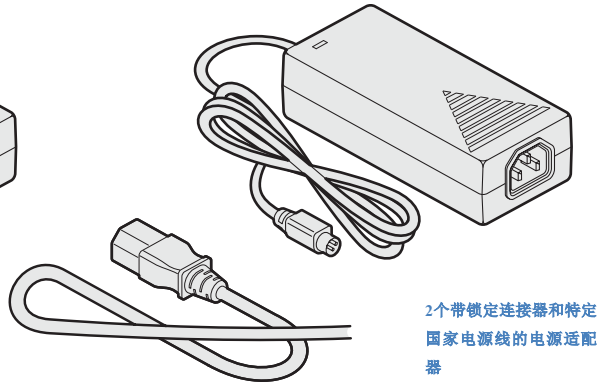

**Information wallet containing:**

Eight self-adhesive rubber feet
Safety document

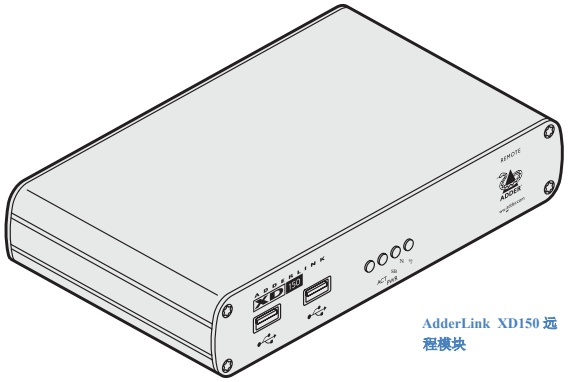


AdderLink XD150 本地模块

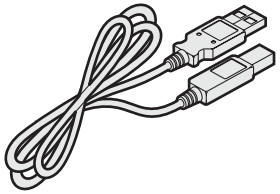




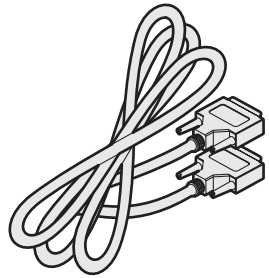
2个带锁定连接器和特定国家电源线的电源适配器



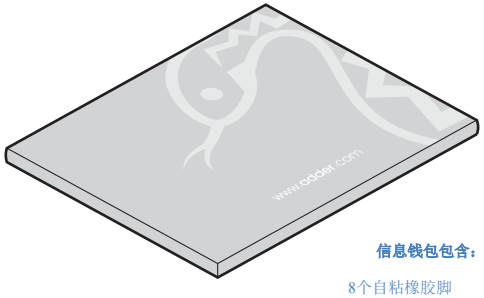
AdderLink XD150 远程模块



USB线缆2米（A型到B型）



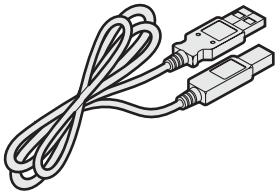
视频电缆DVI-D至DVI-D



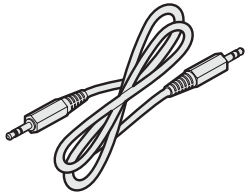

信息钱包包含：

8个自粘橡胶脚
安全文件

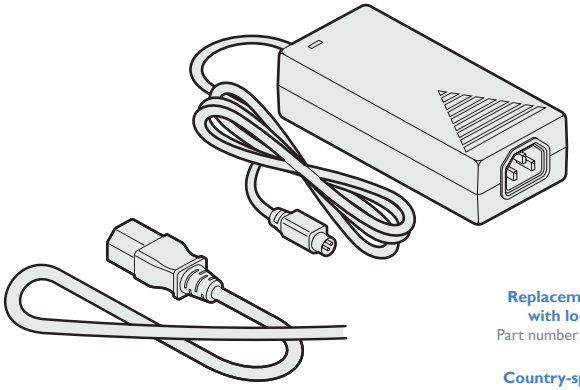
# OPTIONAL EXTRAS



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



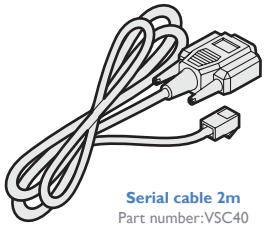
**Audio cable 2m (3.5mm stereo jacks)**
Part number:VSC22



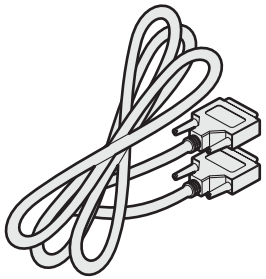
**Replacement power adapter with locking connector**
Part number: PSU-IEC-12VDC-1.5A

**Country-specific power cords**

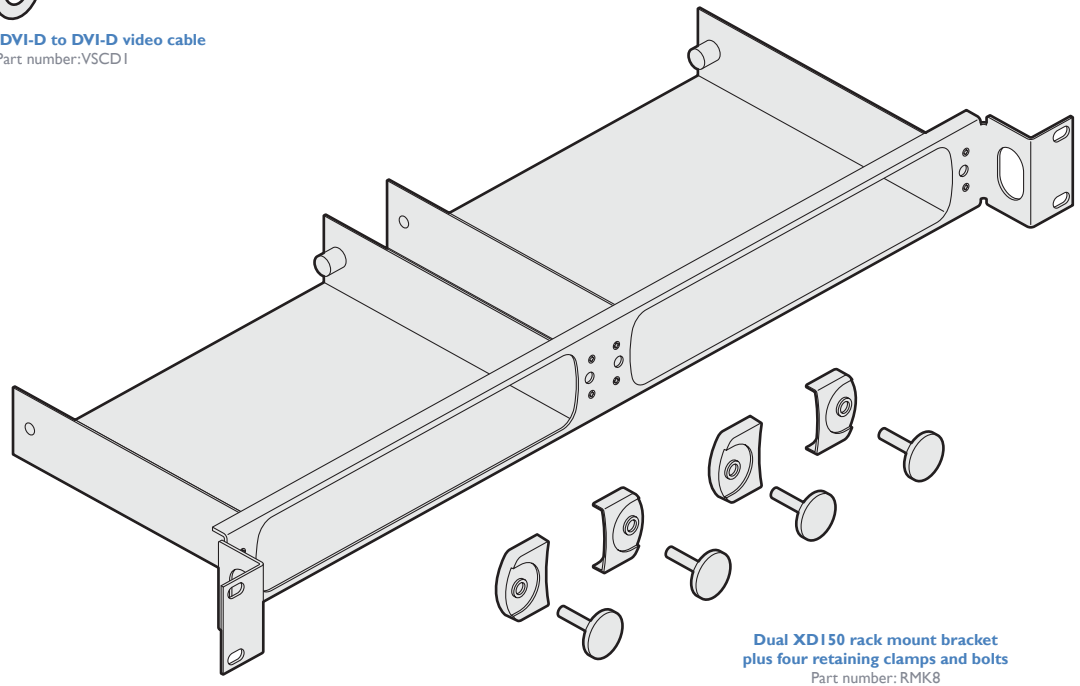
| | |
|---|---|
| CAB-IEC-AUS | *(Australia)* |
| CAB-IEC-EURO | *(Central Europe)* |
| CAB-IEC-UK | *(United Kingdom)* |
| CAB-IEC-USA | *(United States)* |
| CAB-IEC-JAPAN | *(Japan)* |



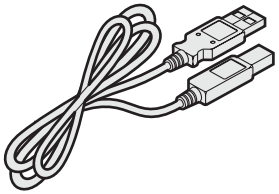
**Serial cable 2m**
Part number:VSC40



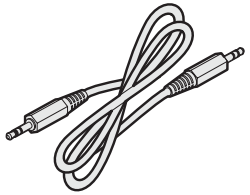
**Single link DVI-D to DVI-D video cable**
Part number:VSCD1



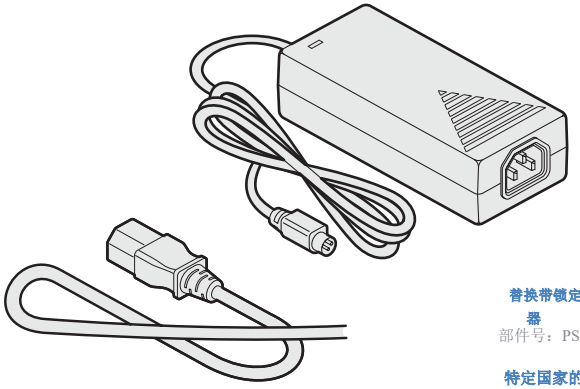
**Dual XD150 rack mount bracket plus four retaining clamps and bolts**
Part number: RMK8



**USB线缆2米（A型到B型）**
部件号：VSC24



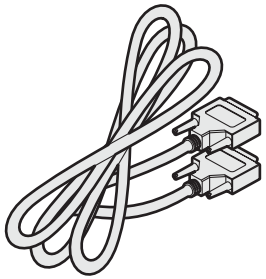
**音频线缆2米(3.5mm立体声插孔）**
部件号：VSC22



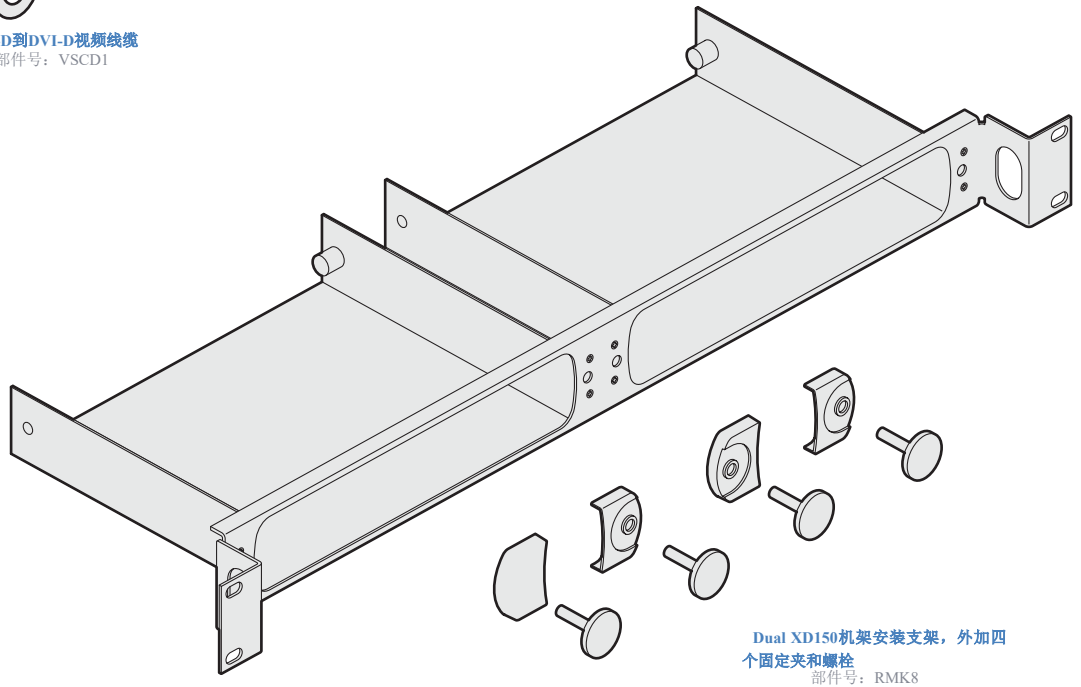
**替换带锁定连接器的电源适配器**
部件号：PSU-IEC-12VDC-1.5A

**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*）

**串行电缆，2米**
部件号：VSC40



**单链路DVI-D到DVI-D视频线缆**
部件号：VSCD1



**Dual XD150机架安装支架，外加四个固定夹和螺栓**
部件号：RMK8

# Installation

## LOCATIONS

Please consider the following important points when planning the position of the AdderLink XD150 modules:

- Situate the local module close to the system to which it will be connected and near to a source of mains power. Place the remote 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 Safety information section.

# 安装

## 地点

规划AdderLink XD150模块的位置时，请考虑以下重要事项：

- 将本地模块放置在靠近要连接的系统的位置，并且靠近电源。将远程模块放在类似的靠近它要连接的外围设备的位置，加上一个电源。
- 请参阅“安全信息”部分所列的注意事项。

# CONNECTIONS

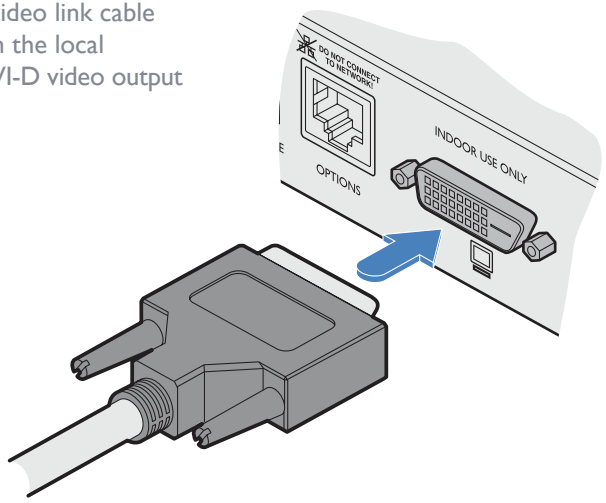
Connections do not need to be carried out in the order given within this guide, however, where possible connect the *power in* as a final step. The local module connects to your computer while the remote module links with your peripherals.

## Local video connection

When operating in *High Rate* mode, AdderLink XD150 can support one Single Link DVI video display at pixel clocks up to 165MHz (equivalent to a maximum resolution of 1920 x 1200 at 60Hz - aka 'WUXGA'). If the *Long Reach* mode is selected, pixel clocks up to 148.5MHz (equivalent to a maximum resolution of 1920 x 1080 at 60Hz - aka '1080P') are supported. This allows greater separation between the local and remote modules to be achieved. Please see the section Mode switch settings for details.

### To connect the video port

1 Connect the supplied digital video link cable between the DVI-D socket on the local module rear panel and the DVI-D video output socket of your host computer.

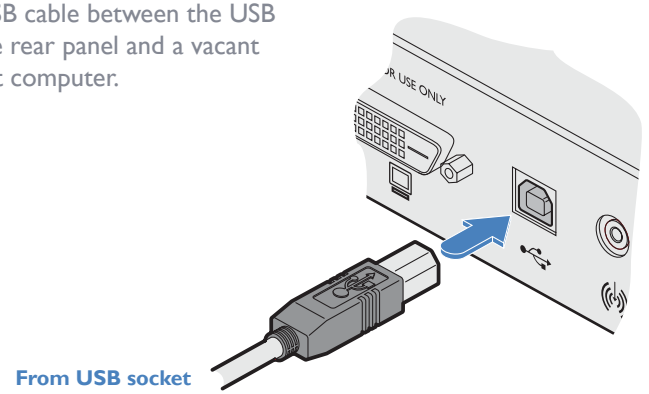



## Local USB connection

If USB connectivity is required, then a single USB connection is necessary between the local module and your computer; the AdderLink XD150 remote module acts as a USB 2.0 hub and thus provides four sockets for your peripherals.

### To connect the USB port

1 Connect the supplied USB cable between the USB port on the local module rear panel and a vacant USB socket on your host computer.



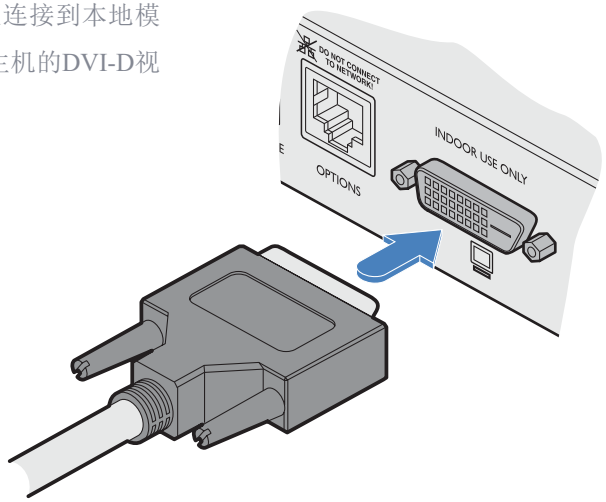
连接不需要按照本指南中给出的顺序进行，但是，如果可能，可以将*电源作为最后一步连接*。本地模块连接到您的计算机，而远程模块连接到您的外围设备。

## 本地视频连接

当以*高速率*模式运行时，AdderLink XD150可支持单链路DVI视频显示，其像素时钟高达165MHz（相当于在60Hz下最大分辨率为1920 x 1200，即俗称的“WUXGA”）。如果选择*长距离*模式，像素时钟最高可达
支持148.5MHz（等效于最大分辨率为1920 x 1080,60Hz——又名“1080P”）。这允许实现本地和远程模块之间的更大间隔。有关详细信息，请参阅模式切换设置部分。

### 连接视频端口

1 将提供的数字视频连接线缆连接到本地模块后面板上的DVI-D接口和主机的DVI-D视频输出接口之间。

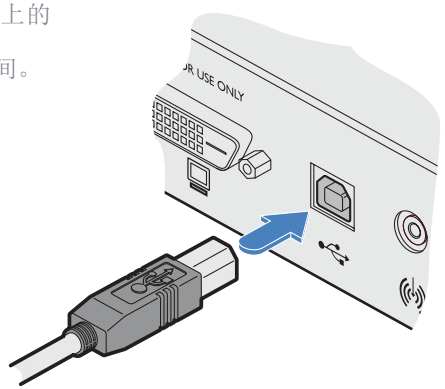



从主机上的视频输出插口

## 本地USB连接

如果需要USB连接，则本地模块和计算机之间需要一个USB连接；AdderLink XD150远程模块充当USB
2.0集线器，因此为外设提供了四个插槽。**要连接USB端口**

1 将提供的USB电缆连接到本地模块后面板上的USB端口和主机计算机上的空闲USB插座之间。



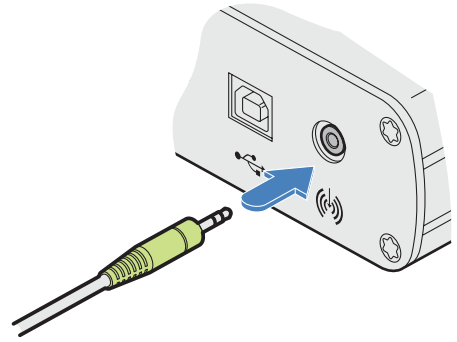
从USB插座
在您的主机上
计算机

## Local audio connection

The AdderLink XD150 modules support stereo speakers. A connection to the audio output port of the host computer is required at the local module.

**To connect the audio port**

1 Connect an audio link cable (Adder part number: VSC22) between the audio socket on the local module rear panel and the speaker/audio output socket of your host computer.



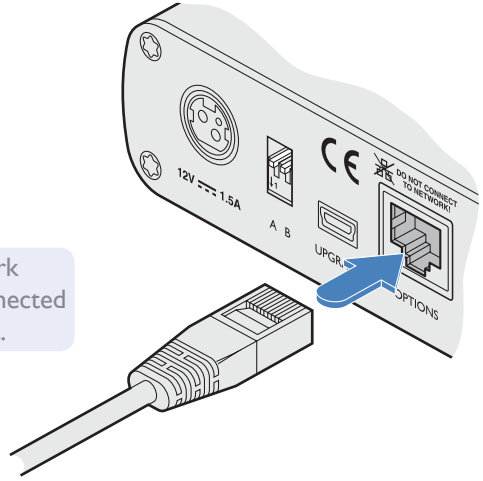
**From audio output on your computer**

## Local serial port connection

The Options port provides an RS232 serial connection with the remote module. When serial devices are attached to the Options ports on the local and remote modules, the units transparently convey the signals between them, via the CATx link, at rates up to 115200 baud - no serial configuration is required. An optional serial cable (part number: VSC40) is available from Adder.

**To connect the serial port**

1 Use the optional serial cable (VSC40) to link the Options port on the rear panel of the local module with a vacant RS232 serial port on your host computer.




This is NOT an ethernet/network port and must NEVER be connected to any networking equipment.

**From the serial port of your host computer**

Please see Appendix 1 for pin-out details of the Options port.

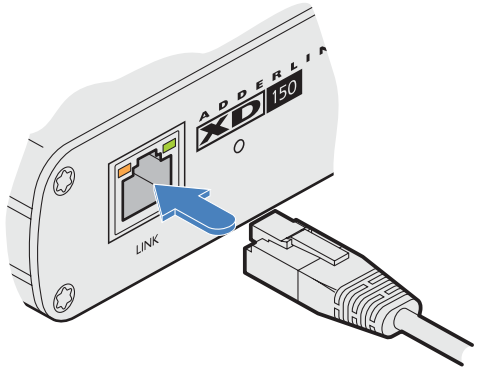
## Local data link connection

The local and remote modules require a direct connection between them using standard CATx cables and connectors. This is a proprietary data link and is NOT network compatible; the modules must NEVER be connected to any networking equipment, such as switches and routers.

When operating in *High Rate* mode, AdderLink XD150 can support cable distances up to 100 meters. If the *Long Reach* mode is selected, the separation between the local and remote modules can be increased to 150 meters. Best results will be gained when single lengths of CAT7 cable are used without the need for patch cables.

**To connect the data link cable**

1 Connect the CATx cable from the remote module to the LINK port on the front panel of the local module.




**From AdderLink XD150 remote module**

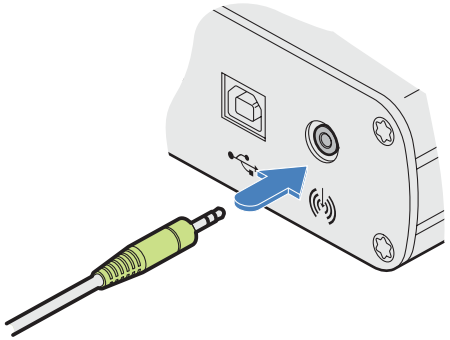
This is NOT an ethernet/network port and must NEVER be connected to any networking equipment.

## 本地音频连接

AdderLink XD150模块支持立体声扬声器。本地模块需要连接到主机计算机的音频输出端口。

### 连接音频端口

1 在本地模块后面板的音频插座和主机计算机的扬声器/音频输出插座之间连接音频链路电缆(Adder部件号：VSC22）。



从计算机的音频输出

## 本地串行端口连接

选项端口提供与远程模块的RS232串行连接。当串行设备连接到本地和远程模块上的选项端口时，设备通过CATx链路在彼此之间透明地传送信号，速率高达115200波特——无需串行配置。可选的串行电缆（部件号：VSC40)可从Adder获得。

### 连接串口

1 使用可选串行电缆（VSC40）将本地模块后面板上的选项端口与主机计算机上空闲的RS232串行端口连接起来。


! This is NOT an et net/netw port and must N赫伊纳尔维格ER be co未连接 to any network equipme

通过主机的串行端口

有关Options端口的引脚详细信息，请参见附录 1。

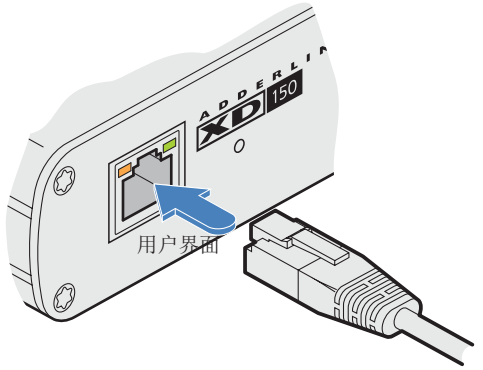
## 本地数据链路连接

本地和远程模块之间需要使用标准CATx电缆和连接器进行直接连接。这是一个专有数据链路，与网络不兼容；模块绝不能连接到任何网络设备，例如交换机和路由器。

在*高速*模式下运行时，AdderLink XD150可支持最长100米的电缆距离。如果选择*长距离*模式，本地和远端模块之间的距离可以增加到150米。使用单根CAT7电缆而不需要跳线时，可获得最佳效果。

### 连接数据链路电缆

1 将CATx电缆从远程模块连接到本地模块前面板上的LINK端口。




从AdderLink XD150远程模块

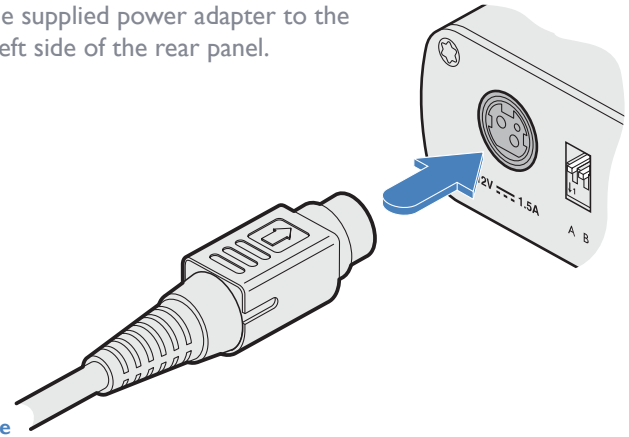
! This is NOT an et net/netw port and must N赫伊纳尔维格ER be co未连接 to any network equipme

## Local power connection

There is no on/off switch on either of the AdderLink XD150 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 given right whenever disconnecting a power adapter.

### To connect the power adapter

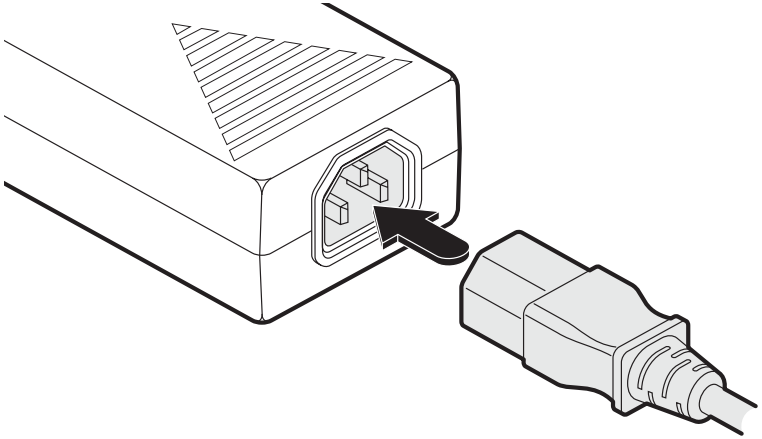
1 Attach the output plug of the supplied power adapter to the power input socket on the left side of the rear panel.




From the power adapter

2 If any mode changes need to be made, adjust the switch settings before applying power to the local module. Please see the section Mode switch settings for details.

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



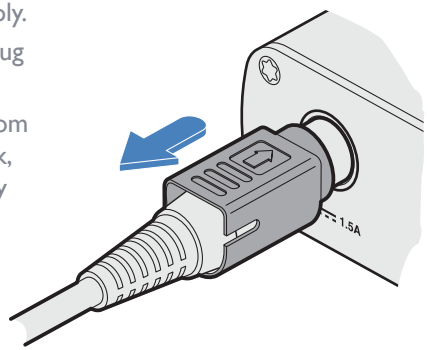
4 Connect the power cord to a nearby main supply socket.

### 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.




Gently pull back the plug outer body to release the lock

**IMPORTANT: Please read and adhere to the electrical safety information given within the Safety information section of this guide. In particular, do not use an unearthed power socket or extension cable.**

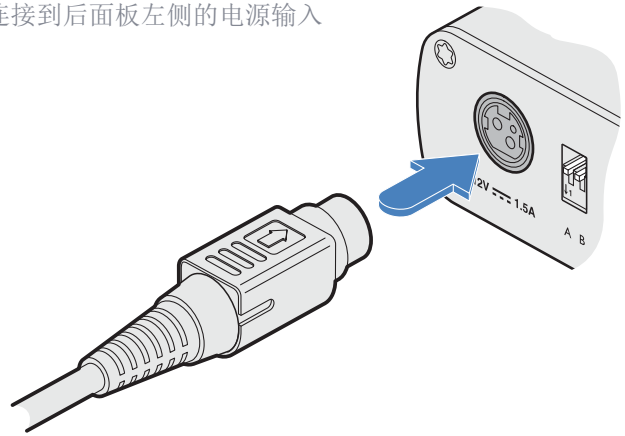
*Note: Both the modules and the power supplies generate heat when in operation and will become warm to the touch. Do not enclose them or place them in locations where air cannot circulate to cool the equipment. Do not operate the equipment in ambient temperatures exceeding 40 degrees Centigrade. Do not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

## 本地电源连接

AdderLink XD150模块上均没有开关，因此只要通电即可开始运行。随附的电源适配器使用锁定型插头以帮助防止意外断开；断开电源适配器时，请遵循右侧提供的说明。

### 连接电源适配器

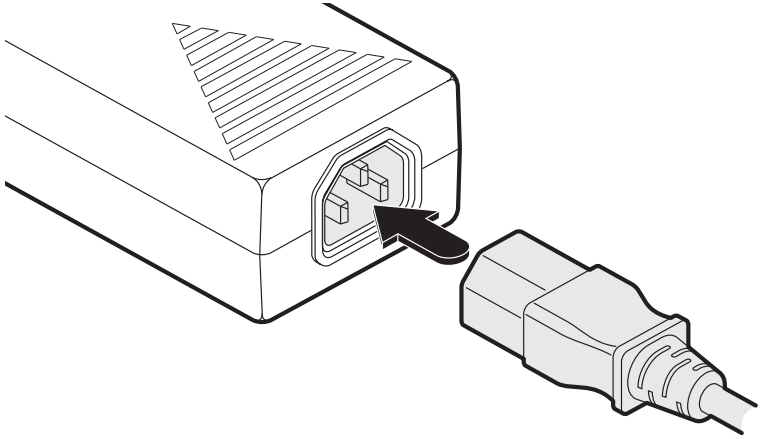
1 将电源适配器的输出插头连接到后面板左侧的电源输入插座。




发件人：
电源适配器

2 如果需要进行任何模式更改，请在给本地模块通电之前调整开关设置。有关详细信息，请参阅模式开关设置部分。

3 将提供的国家/地区专用电源线的IEC连接器连接到电源适配器的插座上。



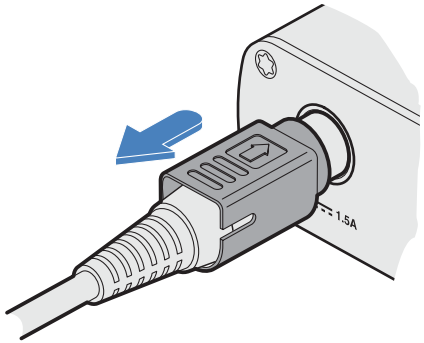
4 将电源线连接到附近的主电源插座。

### 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上拉出。当插头的主体滑回时，它就会从插座中释放，您可以完全抽出整个插头。




轻轻拔出插头外壳，即可松开锁

**重要提示：请阅读并遵守本指南“安全信息”部分中给出的电气安全信息。特别注意，切勿使用未接地电源插座或延长线。**

*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。*

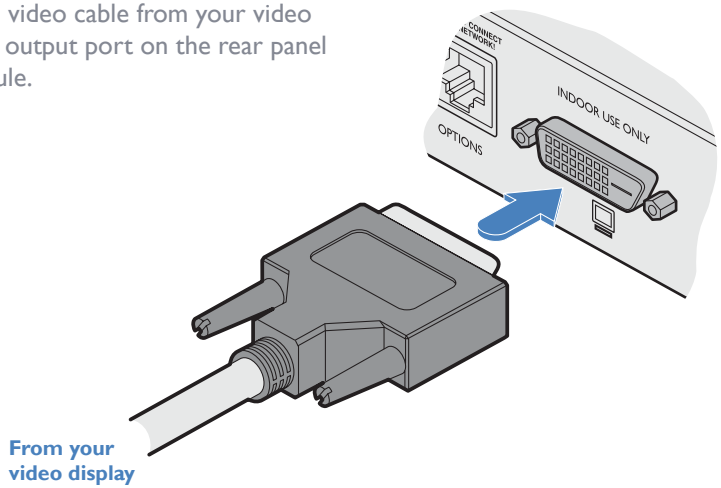
## Remote video connection

A Single Link DVI-D port is provided on the rear panel of the remote module. The bandwidth available at the port is determined by the video input at the local module and also the mode in which the AdderLink XD150 system is running. When high rate mode is used, the modules will continually check the link quality to ensure that it is capable of supporting the higher pixel clock. If excessive data errors are detected, the modules will fall back to *Long Reach* mode until the local module is reset or the link is broken and re-established.

AdderLink XD150 can support one Single Link DVI video display at pixel clocks up to 165MHz (equivalent to a maximum resolution of 1920 x 1200 at 60Hz - aka 'WUXGA') when operating in *High Rate* mode. If the *Long Reach* mode is selected, pixel clocks up to 148.5MHz (equivalent to a maximum resolution of 1920 x 1080 at 60Hz - aka '1080P') in order to allow greater separations between the local and remote modules to be achieved. Please see the section Mode switch settings for details.

### To connect the video display

1 Connect the DVI-D video cable from your video display to the video output port on the rear panel of the remote module.




## EDID management

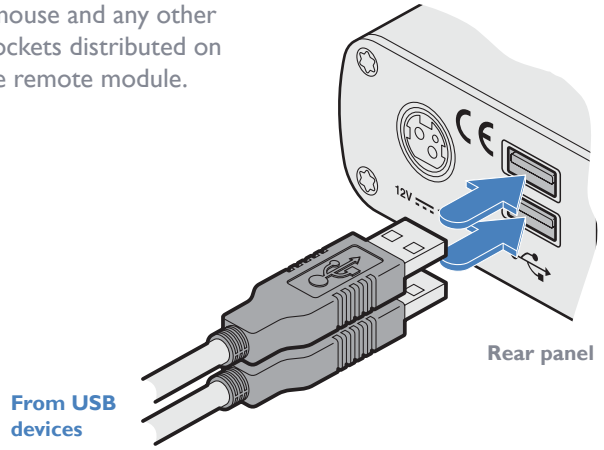
When a remote module is connected and the video display attached to it is detected, the EDID (Extended Display Identification Data) information is cloned and stored at the local module. Once this is done, a transparent DDC/CI (Display Data Channel/Command Interface) two way communication link is provided between the video display and the video source (your host computer). If the remote monitor is removed then the cloned EDID stored at the local module will still be presented to the video source.

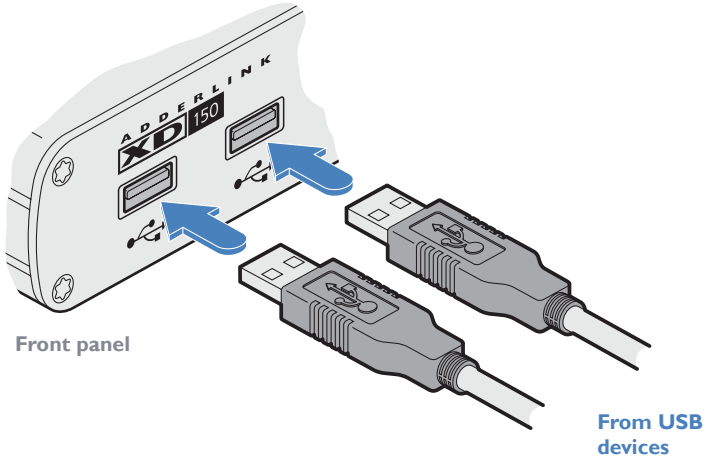
## Remote USB connections

The remote module contains a USB hub that can support up to four v1.1 or v2.0 USB devices (in any combination). All four USB sockets are identical in operation.

### 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 remote module.



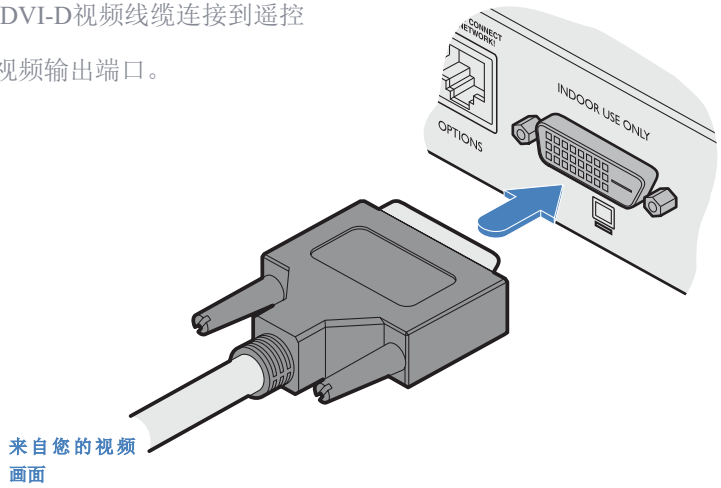
## 远程视频连接

远程模块的背板上配置了一个DVI-D视频接口。该端口的带宽由本地模块的视频输入信号强度及AdderLink XD150系统运行模式共同决定。当启用高速传输模式时，模块会持续监测链路质量，确保其能够承载更高的像素时钟频率。若检测到严重数据错误，系统将自动切换至*长距离传输模式*，直至本地模块重启或发生链路中断重新建立。

AdderLink XD150在*高速传输模式*下可支持单路DVI视频显示，当像素时钟高达165MHz时（对应60Hz下最大分辨率为1920×1200，俗称“WUXGA”）。若选择*长距离传输模式*，像素时钟最高可达148.5MHz（对应60Hz下最大分辨率为1920×1080，即“1080P”），以便实现本地模块与远端模块之间的更大间距。具体设置请参阅模式切换设置部分。

### 连接视频显示器

1 将视频显示器上的DVI-D视频线缆连接到遥控器模块后面板上的视频输出端口。




## EDID管理

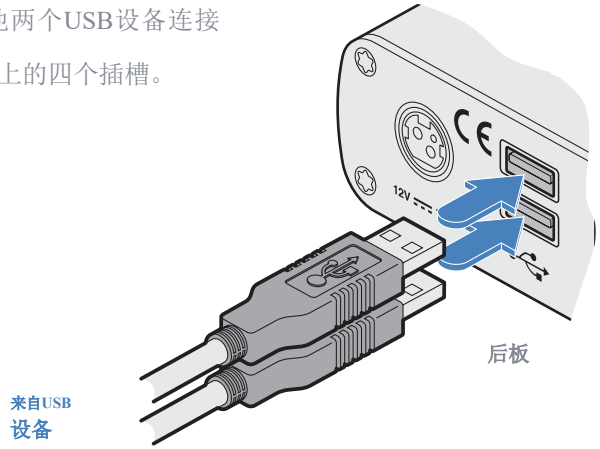
当远程模块连接并检测到其连接的视频显示器时，系统会克隆EDID（扩展显示标识数据）信息并存储在本地模块中。完成这一操作后，视频显示器与视频源（即您的主机）之间将建立透明的DDC/CI（显示数据通道/命令接口）双向通信链路。即使移除远程显示器，本地模块中存储的克隆EDID仍会持续呈现给视频源。

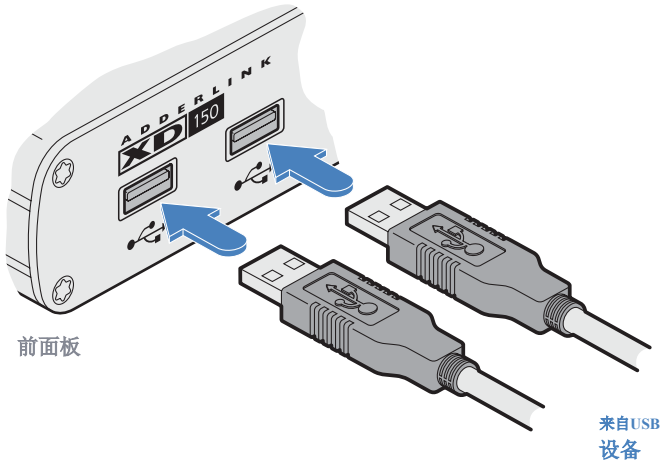
## 远程USB连接

该远程模块包含一个USB集线器，最多可支持四个v1.1或v2.0 USB设备（以任意组合方式）。所有四个USB插座的操作均相同。

### 连接USB设备

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



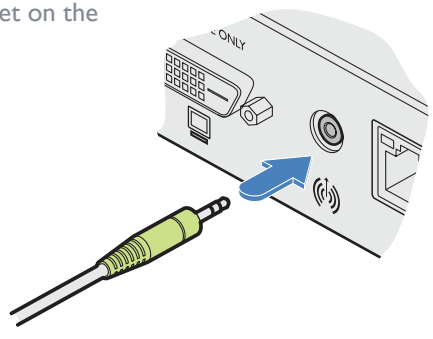



## Remote audio connection

The AdderLink XD150 modules support stereo speakers.

### To connect your speakers

1 Connect your speakers to the audio socket on the remote module rear panel.



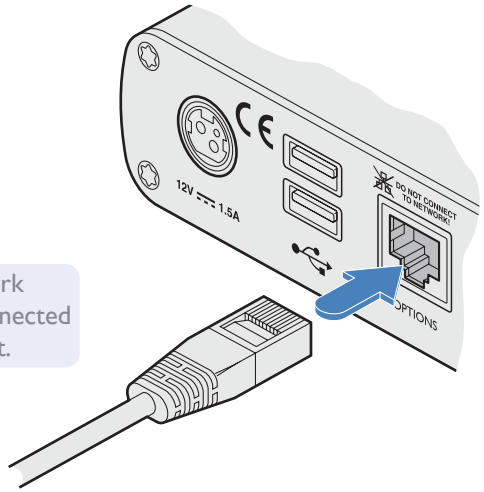
From your speakers

## Remote serial port connection

The Options port provides an RS232 serial connection with the local module. When serial devices are attached to the Options ports on the local and remote modules, the units transparently convey the signals between them, via the CATx link, at rates up to 115200 baud - no serial configuration is required. An optional serial cable (part number: VSC40) is available from Adder.

### To connect the serial port

1 Use the optional serial cable (VSC40) to link the Options port on the rear panel of the remote module with your RS232 serial device.




From your serial device

This is NOT an ethernet/network port and must NEVER be connected to any networking equipment.

Please see Appendix 1 for pin-out details of the Options port.

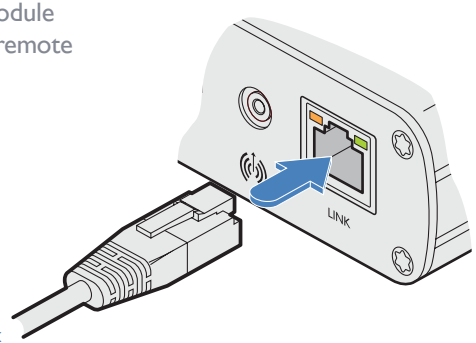
## Remote data link connection

The local and remote modules require a direct connection between them using standard CATx cables and connectors. This is a proprietary data link and is NOT network compatible; the modules must NEVER be connected to any networking equipment, such as switches and routers.

When operating in *High Rate* mode, AdderLink XD150 can support cable distances up to 100 meters. If the *Long Reach* mode is selected, the separation between the local and remote modules can be raised up to 150 meters. Best results will be gained when single lengths of CAT7 cable are used without the need for patch cables.

### To connect the data link cable

1 Connect the CATx cable from the local module to the LINK port on the rear panel of the remote module.



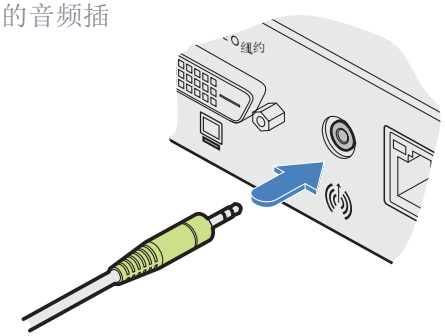

From AdderLink XD150 local module

This is NOT an ethernet/network port and must NEVER be connected to any networking equipment.

## 远程音频连接

AdderLink XD150模块支持立体声扬声器。**要连接扬声器**

1 将扬声器连接至遥控器模块后面板上的音频插孔。



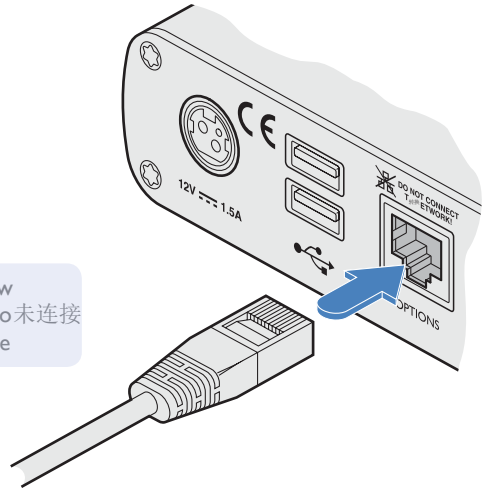
来自您的扬声器

## 远程串行端口连接

选项端口提供与本地模块的RS232串行连接。当串行设备连接到本地和远程模块的选项端口时，单元通过CATx链路在它们之间透明地传送信号，速率高达115200波特——不需要串行配置。可选的串行电缆（部件号：VSC40)可从Adder获得。

**连接串口**

1 使用可选的串行电缆（VSC40）将远程模块后面板上的选项端口与RS232串行设备连接。




来自您的串行设备

! This is NOT an et net/netw
port and must N赫伊纳尔维格ER be co未连接
to any network equipme

有关Options端口的引脚详细信息，请参见附录 1。

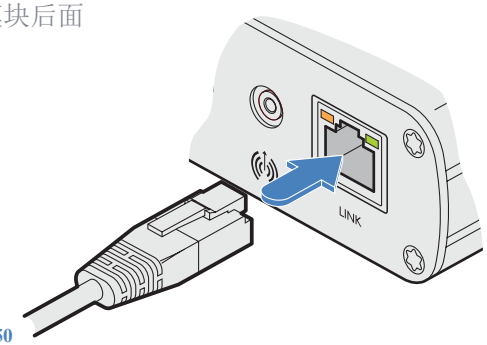
## 远程数据链路连接

本地和远程模块之间需要使用标准CATx电缆和连接器进行直接连接。这是一个专有数据链路，与网络不兼容；这些模块绝不能连接到任何网络设备，例如交换机和路由器。

在*高速率*模式下运行时，AdderLink XD150可支持最长100米的电缆距离。如果选择*长距离*模式，本地和远端模块之间的距离可以提高到150米。使用单段CAT7电缆可以获得最佳效果，而不需要跳线。

**连接数据链路电缆**

1 将CATx电缆从本地模块连接到远程模块后面板上的LINK端口。




来自 AdderLink XD150
本地模块

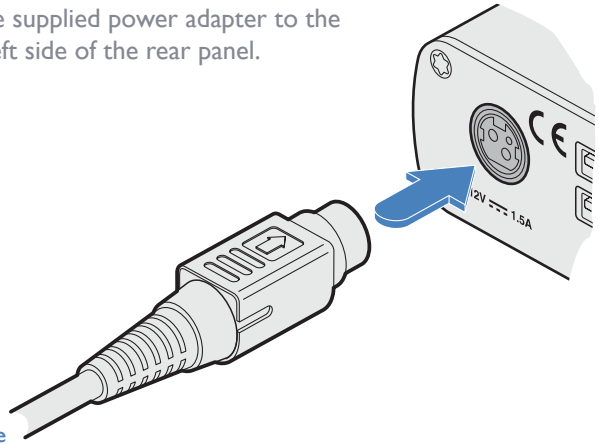
! This is NOT an et net/netw
port and must N赫伊纳尔维格ER be co未连接
to any network equipme

## Remote power connection

There is no on/off switch on either of the AdderLink XD150 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 given right whenever disconnecting a power adapter.

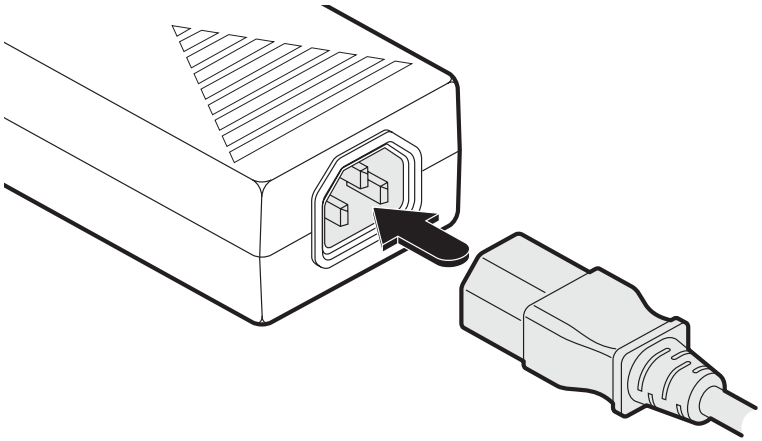
### To connect the power adapter

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




From the power adapter

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



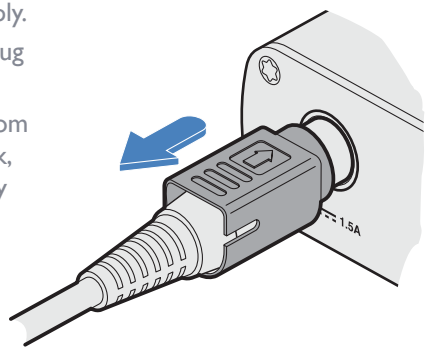
3 Connect the power cord to a nearby main supply socket.

### 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.




Gently pull back the plug outer body to release the lock

**IMPORTANT: Please read and adhere to the electrical safety information given within the Safety information section of this guide. In particular, do not use an unearthed power socket or extension cable.**

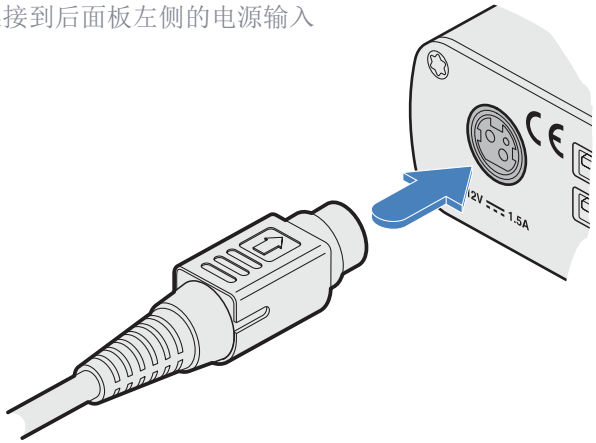
*Note: Both the modules and the power supplies generate heat when in operation and will become warm to the touch. Do not enclose them or place them in locations where air cannot circulate to cool the equipment. Do not operate the equipment in ambient temperatures exceeding 40 degrees Centigrade. Do not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

## 远程电源连接

AdderLink XD150模块上均没有开关，因此只要通电，操作就会立即开始。随附的电源适配器使用锁定型插头，以帮助防止意外断开；断开电源适配器时，请遵循右侧提供的说明。

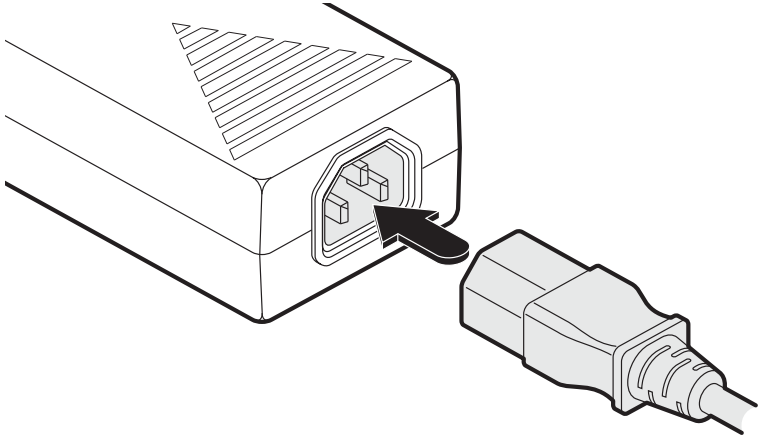
### 连接电源适配器

1 将电源适配器的输出插头连接到后面板左侧的电源输入插座。




发件人：
电源适配器

2 将提供的国家/地区专用电源线的IEC连接器连接到电源适配器的插座上。



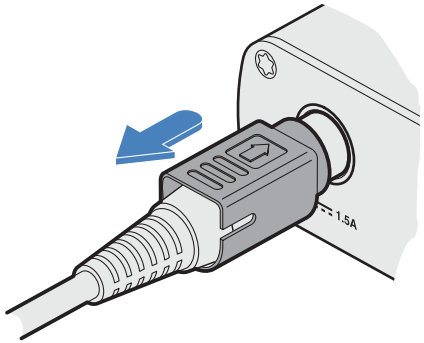
3 将电源线连接到附近的主电源插座。

### 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。




轻轻拔出插头外壳，即可松开锁

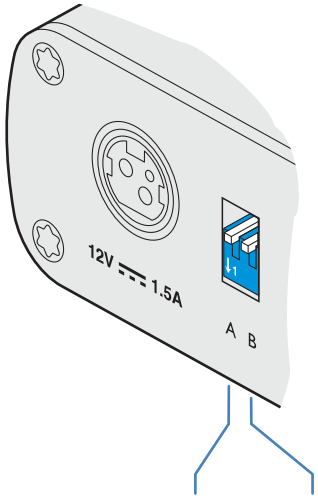
**重要提示：请阅读并遵守本指南“安全信息”部分提供的电气安全信息。特别注意：请勿使用未接地电源插座或延长线。**

*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

## MODE SWITCH SETTINGS

The local module has two small switches on its rear panel. These are used to determine which operation modes should be used. You will need to re-power the local module whenever a switch setting is changed.




**Local module rear panel**

*Note: The default position for both switches is **UP**, thus selecting Long reach mode and high speed (normal) USB mode.*

Changes to the mode switches are not recognized until you re-apply power to the local module.

**Switch A**
**USB compatibility mode**

Determines whether USB compatibility mode should be used.

**UP** - Normal mode - Use this if the modules are not connected to a KVM switch.

**DOWN** - Compatibility mode - Use this if either the local or remote modules are connected to a KVM switch. This mode ensures robust and reliable operation with KVM switches but also reduces the maximum USB data rate.

**Switch B**
**Link mode**

Determines the priority for the data link: Longer distance or higher screen resolution.

**UP** - Long reach mode - Limits the pixel clock (148.5MHz) so that longer stretches of link cable (exceeding 100m) can be used. This will restrict the achievable screen resolution to a maximum of 1920 x 1080 at 60Hz (aka '1080P').

**DOWN** - High rate mode - Allows a higher pixel clock (165MHz) to support screen resolutions of up to 1920 x 1200 at 60Hz (aka 'WUXGA'). This will limit the maximum link cable length to around 100m or less, depending on the type of link cable used.

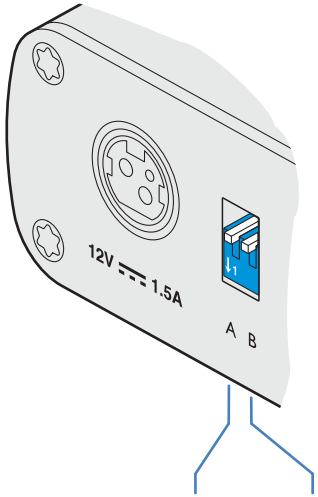
*Note: When high rate mode is used, the modules will continually check the link quality to ensure that it is capable of supporting the higher pixel clock. If excessive data errors are detected, the modules will fall back to Long Reach mode until the local module is reset or the link is broken and re-established.*

# 配置



### MODE开关设置

本地模块的后面板上有两个小开关，用于确定应使用哪种操作模式。每当更改开关设置时，都需要重新为本地模块供电。




本地模块后板

*注意：两个开关的默认位置都是**UP**，因此选择长距离模式和高速（正常）USB模式。*

切换A

**USB兼容模式**

确定是否应使用USB兼容模式。

**UP** -正常模式-如果模块未连接到KVM交换机，请使用此模式。

**DOWN** -兼容性模式-当本地或远程模块连接到KVM交换机时使用此模式。此模式可确保与KVM交换机的稳健可靠操作，但也会降低最大USB数据速率。

切换B

**链接模式**

确定数据链路的优先级：
更长的距离或更高的屏幕分辨率。

**UP** -长距离模式-限制像素时钟（148.5MHz），以便可以使用更长的链路电缆（超过100米）。这将把可达到的屏幕分辨率限制在最大1920 x 1080,60Hz（即“1080P”）。

**DOWN** -高速率模式-允许使用更高像素时钟（165 MHz），以支持高达1920 x 1200的屏幕分辨率，60Hz（即“WUXGA”）。这将把最大链路电缆长度限制在约100米或更短，具体取决于所使用的链路电缆类型。

*注：当使用高速模式时，模块将不断检查链路质量，以确保其能够支持更高的像素时钟。如果检测到过多的数据错误，模块将退回到长距离模式，直到本地模块被重置或链路被断开并重新建立。*

## FIRMWARE UPGRADES

Both modules can be upgraded simultaneously by linking them together and then connecting them to your computer using a USB type-A to mini-B cable.

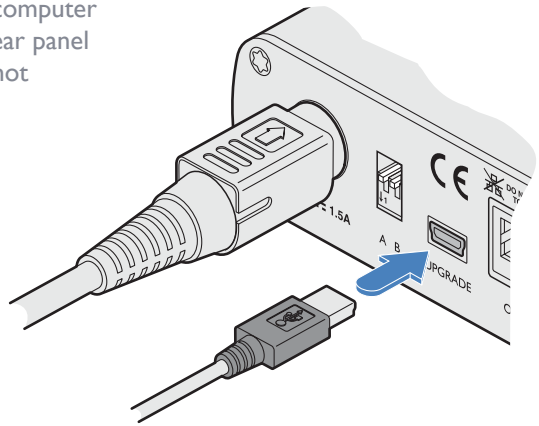
**IMPORTANT: During the upgrade process, do not remove power from either module.**

### To enter upgrade mode

1 On your computer, download the latest AdderLink XD150 upgrade file from **adder.com**.

2 Connect the local and remote modules together using a CATx cable, and power on both modules. It's not important whether any peripherals (if any) are attached to either module.

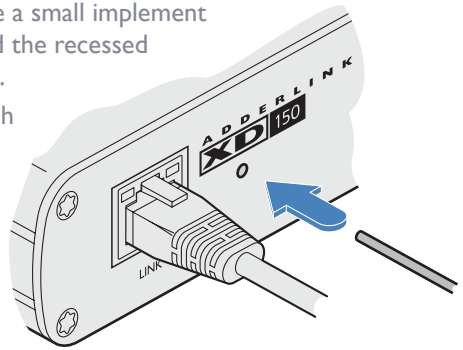
3 Connect the local module to your computer using the mini USB socket on the rear panel and a USB type-A to mini-B cable (not supplied).




4 On the front panel of the local module, use a small implement or straightened paperclip to press and hold the recessed reset button for approximately 10 seconds.

The front panel indicators will begin to flash in sequence: The outer two followed by the inner two and so on.

The module should be declared on your computer as a mass storage device with the volume label 'FIRMWARE'.




5 Use your computer's file manager application to copy the upgrade file downloaded earlier to the mass storage device that has the volume label 'FIRMWARE'. Once the local module has received all of the data, the front panel indicators of the local module will chase from side to side to show that the upgrade procedure is underway.

6 Once the upgrade has been successfully completed both modules will reset themselves and return to normal operation.

## Errors during the upgrade process

If the upgrade process encounters an error then one or more of the indicators on the local module front panel will flash rapidly, i.e. they will cease chasing in sequence.

### If the firmware upgrade fails

1 Check that the CATx cable is correctly connected between the **LINK** sockets of the local and remote modules and that power is applied to both modules.

2 On the front panel of the local module, re-press the recessed reset button for approximately 10 seconds to re-invoke upgrade mode. The module should again be declared on your computer as a mass storage device with the volume label 'FIRMWARE'.

3 Follow step 5 above.

- If the upgrade process fails again, contact Adder technical support for assistance.

## 固件升级

这两个模块可以通过将它们连接在一起，然后使用USB a型到mini-B线缆将它们连接到你的电脑上，同时进行升级。

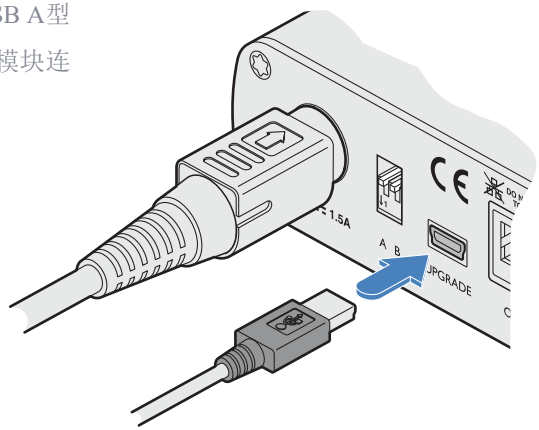
**重要提示：升级过程中，请勿切断任一模块的电源。**

### 进入升级模式

1 在您的计算机上，从**adder.com**下载最新的AdderLink XD150升级文件。

2 使用CATx电缆将本地和远程模块连接在一起，然后为两个模块通电。连接到任一模块的外围设备（如果有）并不重要。

3 使用后面板上的微型USB插座和USB A型到mini-B型电缆（未提供）将本地模块连接至计算机。

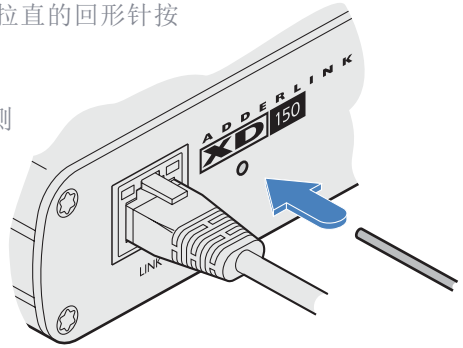



4 在本地模块的前面板上，使用小工具或拉直的回形针按住凹陷的复位按钮约10秒。

前面板指示灯将开始按顺序闪烁：外侧两个，接着是内侧两个，以此类推。

该模块应在计算机上作为带有卷标签的大容量存储设备进行声明。

‘固件’.




5 使用计算机的文件管理器应用程序将先前下载的升级文件复制到带有卷标签“FIRMWARE”的大容量存储设备。本地模块接收到所有数据后，本地模块前面板指示灯将来回闪烁，以显示升级过程正在进行。

6 成功完成升级后，两个模块将重置自身并返回正常操作。

## 升级过程中出现错误

如果升级过程遇到错误，本地模块前面板上的一个或多个指示灯将快速闪烁，即它们将停止按顺序追逐。

### 如果固件升级失败

1 检查CATx电缆是否正确连接在本地和远端模块的**LINK**插槽之间，并且两个模块是否通电。

2 在本地模块的前面板上，再次按住凹陷的复位按钮约10秒钟以重新调用升级模式。该模块应再次被声明为计算机上的一个大容量存储设备，并带有“FIRMWARE”的卷标签。

3 遵循上述步骤5。

- 如果升级过程再次失败，请联系Adder技术支持部门以获取帮助。

# Operation

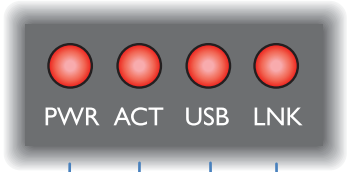
The AdderLink XD150 modules are designed to be transparent in operation. Providing the link cable is sufficient to reliably carry the signals across the separation distance, all peripherals should respond exactly as they would when situated next to your host computer.

## INDICATORS

The local and remote modules contain various indicators to provide you with status information. Both modules have four red indicators on their front panels; both also have green and amber indicators on the link connectors.

### Red status indicators

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




**Power**
This indicator will be on when power is supplied to each module.

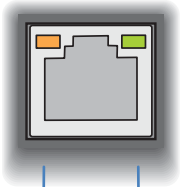
**Activity**
This indicator will flash when there is USB data flowing between the modules.

**USB**
This indicator will be on once the USB extender and hub located within the remote module have been successfully enumerated by the USB host on your computer.

**Link**
This indicator will be on once a good link exists between the local and remote modules.

### Green and amber status indicators

The green and amber status indicators on the link connectors of each module provide further status information:



**Amber**
This indicator will flash when video data is being transferred between the modules.

**Green**
This indicator will be on whenever there is a good link between the local and remote modules.

# 操作

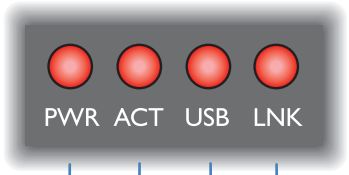
AdderLink XD150模块在操作中是透明的。只要连接电缆足以可靠地传输信号跨越分离距离，所有外围设备应准确响应，就像它们位于主机旁边一样。

### 指标

本地和远程模块包含各种指示器，可为您提供状态信息。两个模块前面板上都有四个红色指示器；两个模块的连接器上都有绿色和琥珀色指示器。

## 红色状态指示灯

各模块前面板上的红色状态指示灯通常同时以相同的方式工作：




**权力**
当为每个模块供电时，该指示灯将点亮。

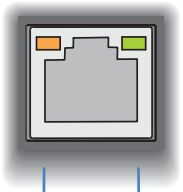
**活动**
当模块之间有USB数据流时，该指示灯将闪烁。

**统一的S波段**
一旦计算机上的USB主机成功枚举了位于远程模块中的USB扩展器和集线器，该指示灯就会亮起。

**链接**
一旦本地和远程模块之间存在良好的连接，该指示灯就会亮起。

## 绿色和琥珀色状态指示灯

每个模块的连接器上的绿色和琥珀色状态指示灯提供进一步状态信息：



**安珀**
当视频数据在模块之间传输时，该指示灯将闪烁。

**格林**
只要本地和远程模块之间有良好的连接，该指示灯就会亮起。

# Further information

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

- Getting assistance - see right
- Appendix 1 - Options port pin-out
- Appendix 2 - Link cable interference protection
- Safety information
- Warranty
- Radio frequency energy statements

## GETTING ASSISTANCE

If you are still experiencing problems after checking the information contained within this guide, then we provide a number of other solutions:

- **Online solutions and updates** – www.adder.com/support

  Check the Support section of the adder.com website for the latest solutions and firmware updates.

- **Adder Forum** – forum.adder.com

  Use our forum to access FAQs and discussions.

- **Technical support** – www.adder.com/contact-support-form

  For technical support, use the contact form in the Support section of the adder.com website - your regional office will then get in contact with you.

# 进一步资料

本章包含多种信息，其中包括：



## 获取帮助

如果检查本指南中的信息后，您仍然遇到问题，我们还提供其他解决方案：

- **在线解决方案和更新—** www.adder.com/support

  查看adder.com网站的“支持”部分，以获取最新的解决方案和固件更新。

- **Adder论坛—** forum.adder.com

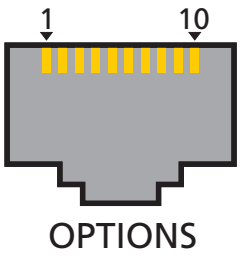
  使用我们的论坛访问常见问题解答和讨论。

- **技术支持 –** www.adder.com/contact-support-form 如需技术支持，请使用adder.com网站支持部分中的联系表单，随后您所在地区的办事处将与您联系。

# APPENDIX 1 - OPTIONS PORT PIN-OUT

The **OPTIONS** port uses a 10p10c socket which can accommodate both 10p10c connectors as well as the much more common 8p8c connectors, which are used on Ethernet leads and patch cables. The pin-outs are listed in this section for both types of connector.

*Note: Although the pins labeled 'Not used' are inactive, they are still connected internally and so no links should be made at all to these pins.*

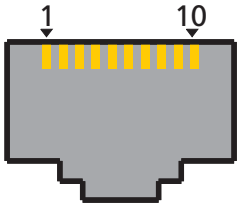



| 8p8c | 10p10c | Signal |
|---|---|---|
| | 1 | Not used |
| 1 | 2 | 5VDC power output (100mA max) |
| 2 | 3 | GND reference for all signals |
| 3 | 4 | RS232 (RXD) data receive |
| 4 | 5 | Not used |
| 5 | 6 | Not used |
| 6 | 7 | RS232 (TXD) data transmit |
| 7 | 8 | Not used |
| 8 | 9 | Not used |
| | 10 | Not used |

# 附录1——端子引脚配置选项

**OPTIONS**端口采用10p10c插座，可同时容纳10p10c连接器和更常见的8p8c连接器，后者用于以太网线和跳线。本节中列出了两种连接器的引脚配置。

*注：虽然标记为“未使用”的引脚处于非活动状态，但它们仍处于内部连接状态，因此不应与这些引脚建立任何连接。*




选项

**8p8c 10p10c信号**

| | |
|---|---|
| | 1 未使用 |
| 1 | 2 5VDC电源输出（最大100mA） |
| 2 | 3 GND参考值适用于所有信号 |
| 3 | 4 RS232（RXD）数据接收 |
| 4 | 5未使用 |
| 5 | 6未使用 |
| 6 | 7 RS232（TXD）数据发送 |
| 7 | 8未使用 |
| 8 | 9未使用 |
| | 10 未使用 |

# APPENDIX 2 - LINK CABLE INTERFERENCE PROTECTION

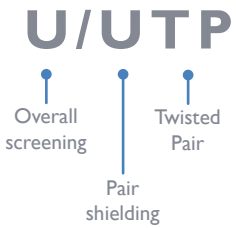
While the Category rating (e.g. CAT 5e, CAT 6a, CAT 7, etc.) determines the electrical performance of a cable, another vital part of the overall cable specification is its protection from interference. As cabling distances and data rates increase, so too does the susceptibility to interference, from both external and internal sources.

Proximity to other electromagnetic sources are the main external threat and these can be subdued using overall screening that surrounds all four of the cable pairs. However, interference is also possible from neighbouring twisted pairs within the same cable and this can be just as hazardous to data integrity. Such *crosstalk* is countered by shielding each cable pair separately.

Within each Category rating, you can specify different combinations of external screening and internal shielding to suit the environment into which the link is being placed. Please see the section Tips for achieving good quality links for suggested combinations.

**Interference protection codes**

Interference protection is now classified in the following manner:




*where*

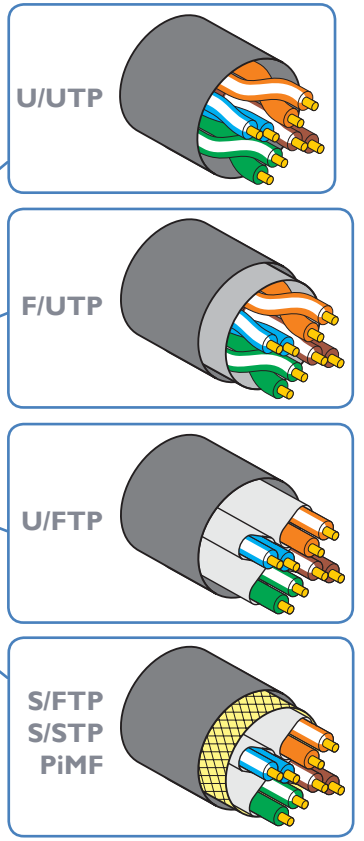
**U** = unshielded

**F** = foil shielding

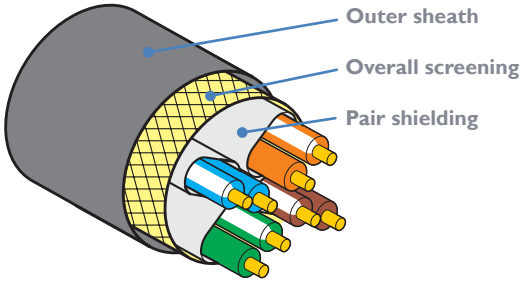
**S** = braided shielding

**PiMF** = Pairs in Metal Foil

| Name | Overall Screening | Pair Shielding |
|---|---|---|
| U/UTP | ✗ | ✗ |
| F/UTP | ✓ | ✗ |
| U/FTP | ✗ | ✓ |
| S/FTP or S/STP or PiMF | ✓ | ✓ |




**General cable anatomy**



## 附录2-链路电缆干扰保护

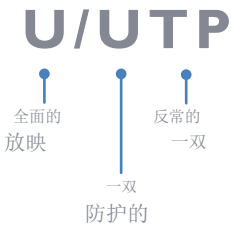
虽然类别评级（如CAT 5e、CAT 6a、CAT 7等）决定了电缆的电气性能，但整体电缆规格的另一个重要部分是其对干扰的保护。随着布线距离和数据速率的增加，对来自外部和内部来源的干扰的敏感性也会增加。

其他电磁源的邻近性是主要的外部威胁，这可以通过包围所有四对电缆的全面屏蔽来抑制。然而，同一根电缆内相邻的双绞线也可能产生干扰，这对数据完整性同样具有危害。这种*串扰*通过单独屏蔽每对电缆来消除。

在每个类别评级中，您可以指定不同的外部筛选和内部屏蔽的组合，以适应链接所放置的环境。请参阅关于实现高质量链接的提示部分，以了解建议的组合。

### 干扰保护码

干扰防护目前按以下方式分类：



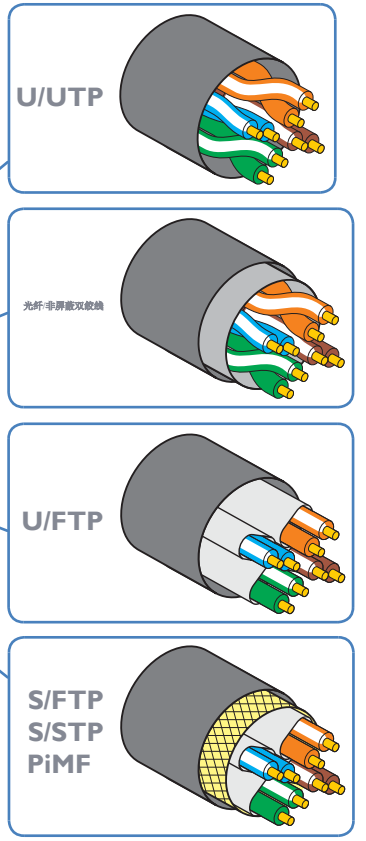

*在哪里*

**U** =未屏蔽**F** =箔片

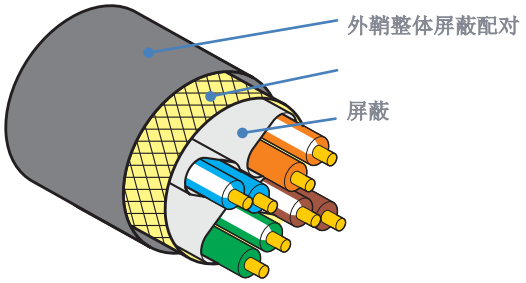
屏蔽**S** =编织屏蔽

**PiMF** =金属箔中的对

| 姓名 | 整体筛选 | 配对屏蔽 |
|---|---|---|
| U/UTP | ✗ | ✗ |
| 光纤/非屏蔽双绞线 | ✓ | ✗ |
| U/FTP | ✗ | ✓ |
| S/FTP 或 S/STP 或PiMF | ✓ | ✓ |




**通用电缆结构**



## SAFETY INFORMATION

- For use in dry, oil free indoor environments only.
- Warning - live parts contained within power adapter(s).
- No user serviceable parts within power adapter(s) - do not dismantle.
- Plug the power adapter(s) into socket outlets close to the module that they are powering.
- Do not use an unearthed power socket or extension cable.
- Do not use a power adapter if its case becomes damaged, cracked or broken or if you suspect that it is not operating properly.
- Replace the power adapter(s) with a manufacturer approved type only.
- If you use a power extension cord with the module, make sure the total ampere rating of the devices plugged into the extension cord does not exceed the cord's ampere rating. Also, make sure that the total ampere rating of all the devices plugged into the wall outlet does not exceed the wall outlet's ampere rating.
- Do not attempt to service the modules yourself.

## WARRANTY

Adder Technology Ltd warrants that this product shall be free from defects in workmanship and materials for a period of two years from the date of original purchase. If the product should fail to operate correctly in normal use during the warranty period, Adder will replace or repair it free of charge. No liability can be accepted for damage due to misuse or circumstances outside Adder's control. Also Adder will not be responsible for any loss, damage or injury arising directly or indirectly from the use of this product. Adder's total liability under the terms of this warranty shall in all circumstances be limited to the replacement value of this product.

If any difficulty is experienced in the installation or use of this product that you are unable to resolve, please see the Getting assistance section.

## 安全信息

- 仅限在干燥、无油的室内环境中使用。
- 警告：电源适配器(s)内含有带电部件。
- 电源适配器(s)内没有用户可维修部件-请勿拆卸。
- 将电源适配器插入靠近其供电的模块的插座中。
- 请勿使用未挖出的电源插座或延长线。
- 如果电源适配器的外壳损坏、破裂或断裂，或者如果怀疑其不能正常工作，请勿使用该电源适配器。
- 请仅用制造商认可的电源适配器替换一个或多个电源适配器。
- 如果使用电源延长线连接该模块，请确保插入延长线的设备的总安培额定值不超过延长线的安培额定值。同时，确保插入墙壁插座的所有设备的总安培额定值不超过墙壁插座的安培额定值。
- 请勿自行维修模块。

## 质保

艾德科技有限公司承诺，自产品首次购买之日起两年内，本产品在工艺和材料方面均无瑕疵。若产品在保修期内正常使用时出现故障，艾德将免费提供更换或维修服务。对于因误用或超出公司控制范围的情况导致的损坏，本公司概不负责。此外，艾德亦不承担因使用本产品直接或间接引发的任何损失、损坏或人身伤害。根据本保修条款，艾德承担的全部责任均以产品重置价值为限。

如果在安装或使用本产品时遇到无法解决的困难，请参阅“获取帮助”部分。

## RADIO FREQUENCY ENERGY

A Category 5e (or better) twisted pair cable must be used to connect the units in order to maintain compliance with radio frequency energy emission regulations and ensure a suitably high level of immunity to electromagnetic disturbances.

All cables used with this equipment must be shielded in order to maintain compliance with radio frequency energy emission regulations and ensure a suitably high level of immunity to electromagnetic disturbances.

## European EMC directive 2004/108/EC

This equipment has been tested and found to comply with the limits for a class A computing device in accordance with the specifications in the European standard EN55022. These limits are designed to provide reasonable protection against harmful interference. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions may cause harmful interference to radio or television reception. However, there is no guarantee that harmful interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to correct the interference with one or more of the following measures: (a) Reorient or relocate the receiving antenna. (b) Increase the separation between the equipment and the receiver. (c) Connect the equipment to an outlet on a circuit different from that to which the receiver is connected. (d) Consult the supplier or an experienced radio/TV technician for help.

## FCC Compliance Statement (United States)

This equipment generates, uses and can radiate radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio communication. It has been tested and found to comply with the limits for a class A computing device in accordance with the specifications in Subpart J of part 15 of FCC rules, which are designed to provide reasonable protection against such interference when the equipment is operated in a commercial environment. Operation of this equipment in a residential area may cause interference, in which case the user at his own expense will be required to take whatever measures may be necessary to correct the interference. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

## Canadian Department of Communications RFI statement

This equipment does not exceed the class A limits for radio noise emissions from digital apparatus set out in the radio interference regulations of the Canadian Department of Communications.

*Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le règlement sur le brouillage radioélectriques publié par le ministère des Communications du Canada.*

## 射频能量

必须使用5e类（或更好）双绞线电缆连接设备，以符合射频能量发射法规并确保电磁干扰的抗扰度达到适当水平。

所有与该设备一起使用的电缆必须屏蔽，以保持符合射频能量发射法规并确保对电磁干扰具有足够高的抗扰度。

## 欧洲EMC指令2004/108/EC

经测试，本设备符合欧洲标准EN55022中A类计算设备的限值要求。这些限值旨在提供合理的电磁干扰防护。本设备会生成、使用并可能辐射射频能量，若未按说明书安装使用，可能导致对收音机或电视接收产生有害干扰。但需注意，特定安装环境中仍无法完全避免此类干扰。若设备确实对收音机或电视接收造成干扰（可通过开关设备进行检测），建议用户尝试以下一种或多种措施消除干扰：(a)重新调整接收天线的方向或位置。

(b) 增加设备与接收器之间的间隔。(c)将设备连接到与接收器所连接的电路不同的电路中的插座上。(d)咨询供应商或有经验的无线电/电视技术人员以获得帮助。

## 面心立方合规声明（美国）

该设备可产生、使用并辐射射频能量，若未按制造商说明正确安装和使用，则可能对无线电通信造成干扰。经测试发现，其符合面心立方规则第15部分J子部分中A类计算设备的限值要求，这些限值旨在确保设备在商业环境中运行时能有效抵御此类干扰。若在居民区使用该设备，可能引发干扰，此时用户需自行承担费用采取必要措施消除干扰。未经制造商明确批准的任何变更或修改，均可能导致用户操作设备的权限失效。

## 加拿大通讯部RFI声明

该设备的无线电噪声发射量不超过加拿大通信部无线电干扰条例中规定的数字设备A类限制。

*本设备的无线电发射功率未超过加拿大通信部颁布的《无线电干扰条例》中规定的A类数字设备适用限值。*


Web: www.adder.com

Contact: www.adder.com/contact-details

Support: forum.adder.com

Documentation by: CORPORATE TEXT & DESIGN www.ctxd.com


Part No. MAN-XD150-ADDER • Release 1.1

蜘蛛网 www.adder.com

联系人：www.adder.com/contact-details

支持：forum.adder.com

文件编制人：

www.ctxd.com



部件号：MAN-XD150-ADDER•版本1.1

# Index

# 索引