四 用户指南

Starter's Guide





PHILIPS

用户指南

Starter's Guide

RFX9600 用户指南

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安装须知

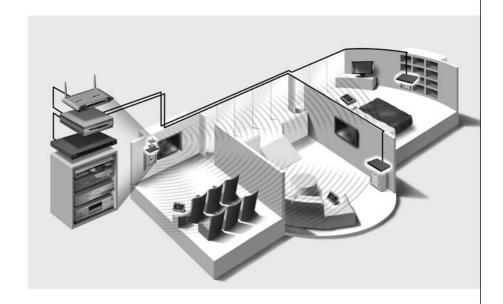
Pronto 串口延伸器是 Pronto 系统的重要组成部分,利用它可以在整个住宅范围内通过 RF 控制 A/V 设备。此外,它还可以通过 RS232 连接到 A/V 设备,允许您使用电源传感实现可靠的开关机切换。例如,还可以使用它控制影幕和投影仪升降。

为了在无线 Pronto 网络中使用该延伸器, 您需要:

• 安装延伸器:将其连接到路由器和外部设备,如电视或接收器。

• 配置延伸器:将其连接到 PC,使用配置工具进行配置。

该延伸器用在具有无线接入点和/或路由器的网络中,如下图所示。

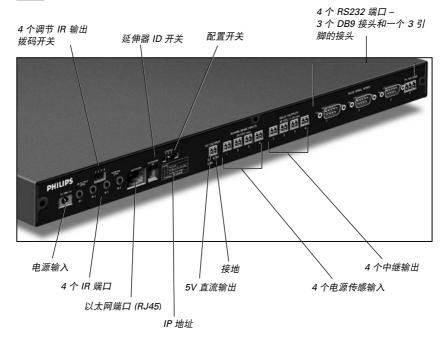


取出延伸器

Pronto 串口延伸器



后面板







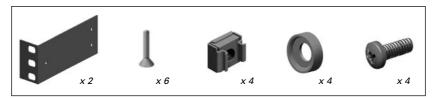


2 个双红外发射器

2 根迷你插孔 IR 线缆



安装套件

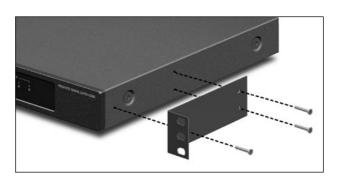


安装延伸器

■在机架上安装延伸器

警告 保持延伸器远离放大器等热源。

使用螺丝钉将安装板 固定在延伸器上。



使用螺杆、垫圈和螺帽 将延伸器安装到机架。



■将延伸器连接到外部设备

延伸器可以通过背面板上的各种输出连接到外部设备。

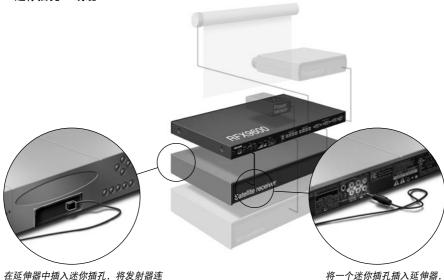
警告 确保始终在设备电源关闭之后再连接到延伸器。

将延伸器连接到红外控制的 A/V 设备

为了使延伸器能够传输 IR 信号,您需要将通过延伸器背面的 IR 输出将它连接到 A/V 组件。

使用延伸器附带的以下一种线缆,将延伸器连接到红外控制 A/V 设备:

- 双红外发射器:
- -或.-
- 迷你插孔 IR 线缆。



在延伸器中插入迷你插孔,将发射器连 接到红外控制设备的红外显示。

将一个迷你插孔插入延伸器, 将另一个插入红外控制设备。

调节 IR 输出的功率大小。

在延伸器背面,有 4 个拨码开关,每个对应一个 IR 输出。使用这些拨码开关, 降低使用双红外发射器和迷你插孔线缆时的功率大小。

在您怀疑 IR 信号对于接收 A/V 组件来说太强时,或者在将 IR 端口连接到外部 IR 总线系统时,这些拨码开关就非常有帮助。

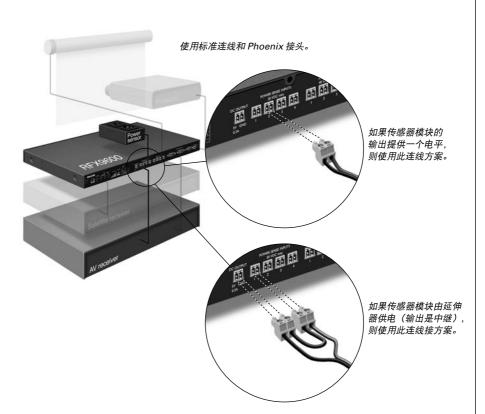
使用传感器输入

当控制板发出一个宏用来打开或关闭多个 A/V 组件时,通常会使用离散的代码确保组件的状态。有时只有切换代码可用:用一个命令在打开和关闭状态之间切换,而没有单独的命令用来打开和关闭组件。在此情况下,系统可能变得不同步。此问题可以使用电源传感解决:

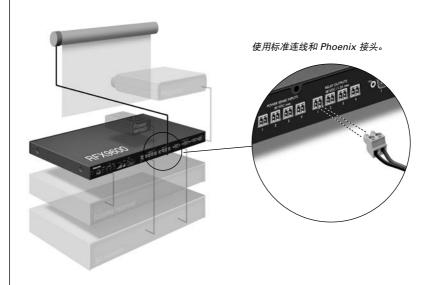
- 连接到 A/V 组件的电源传感器可以检测是否打开了组件的电源。
 通过将电源传感器连接到延伸器,可以继而将信息传输到延伸器。
- 有些 A/V 组件(如接收器)上有专门用于此用途的迷你插孔输出。这些迷你插孔输出可以连接到延伸器上的电源传感输入。
- 对于视频信号源,可以使用视频传感器模块。

确保在 ProntoEdit Professional 的操作列表中创建了特定的电源传感命令。

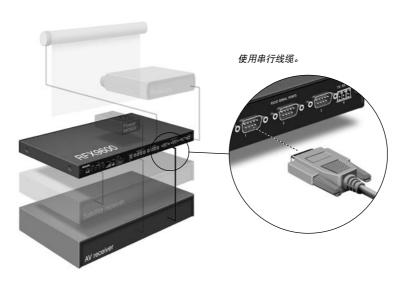
注意 延伸器未提供传感器模块,但是大多数可用的传感器模块都与延伸器兼容。 电源传感输入通过电压在 5V 与 30V 之间的电源输入触发。



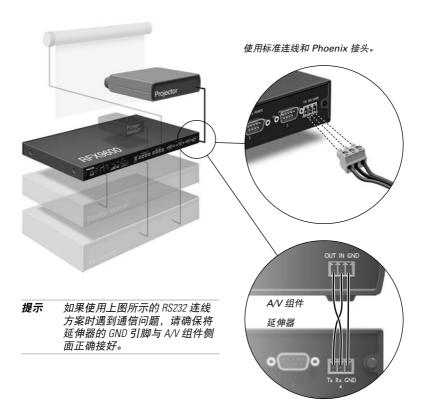
连接到中继控制的设备



连接到串口设备 有两种方法将串口设备连接到延伸器:



注意 对于大多数 A/V 组件,都可以使用标准的"母-公"或"母-母"RS232 线缆。



连接到 Lutron RadioRa 照明系统

- 1 通过 RS232 端口将 Lutron 照明系统连接到延伸器。请参阅第 7 页上的 "连接到 串口设备"一章。
- 2 打开 ProntoEdit Professional。
- 3 打开配置文件。
- 4 在配置文件中插入 "Lutron 照明系统"。

注意 如果有多个延伸器,通过"系统属性"将这些延伸器添加到配置文件,然后 再配置"Lutron 照明系统"。

- 5 打开 "Lutron 照明系统属性"。
- 6 调整 Lutron 照明系统的设置。
 - 1 选择与 Lutron 照明系统相连的延伸器。
 - 2 选择延伸器上用来连接的端口。

在网络中插入多媒体服务器

您可以向网络添加 Escient 媒体服务器或 Imerge 声音服务器。

- 1 将服务器连接到路由器。
- 2 打开 ProntoEdit Professional。
- 3 打开配置文件。
- 4 要在配置文件中插入**多媒体服务器**,请单击 "Insert Escient Media Server" (插入 Escient 媒体服务器)按钮或 "Insert Imerge Sound Server" (插入声音服务器)按钮。
- 5 打开 "Multimedia Server Properties" (多媒体服务器属性)。
- 6 调节多媒体服务器的设置:
 - 如果多媒体服务器使用固定的 IP 地址,则填入该 IP 地址。
 - 如果服务器使用动态 IP 地址,则填入其主机名称。

插入 Windows MCE PC 作为音乐服务器

在 Pronto 网络中添加 MCE PC 作为音乐服务器之前,您需要在 MCE PC 上安装特定的软件。您可以通过我们的网站 <u>www.pronto.philips.com</u> 购买此软件。在 "**Downloads**"(下载)部分可以找到更多说明。

注意 您需要为每个要添加到 Pronto 网络的 MCE PC 购买一个许可证。

- 1 将 PC 连接到路由器。
- 2 打开 ProntoEdit Professional。
- 3 打开配置文件。
- 4 通过单击 "Insert Windows Media Center" (插入 Windows Media Center), 在配置文件中插入 PC。
- 5 打开 "Windows Media Center Properties" (Windows Media Center 属性)。
- 6 调整 Windows Media Center PC 的设置:
 - 如果 PC 使用固定的 IP 地址,则填入该 IP 地址。
 - 如果服务器使用动态 IP 地址,则填入其主机名称。

₿将延伸器连接到网络

延伸器通常能直接使用,不需要进行配置。只有当您想要对延伸器使用固定 IP 地址,或者在 Pronto 网络中有多个延伸器时,才需要调整设置。

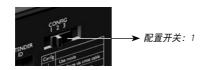
注意 在开始使用或配置延伸器之前,请访问 www.pronto.philips.com,检查 "Downloads"(下载)部分中是否有可用的固件更新。更多详细信息,请参阅第 13 页上的"固件更新"一章。

使用延伸器

1 使用以太网直线缆将延伸器连接 到路由器。



- 2 将延伸器 ID 开关设置为 1 或设置为尚未被 Pronto 网络中其它延伸器使用的 ID。
- 3 将配置开关设置为1开始使用:



4 插入延伸器电源适配器的插头。

延伸器将启动。启动之后,电源指示灯和以太网指示灯亮绿光。在延伸器处理代码或宏时,忙指示灯闪烁绿光。

配置延伸器

您可以将延伸器直接连接到 PC 完成配置。

如果延伸器已安装并连接到外部设备,则还可以通过路由器配置延伸器。有关详细说明,请参阅第11页上的"通过路由器完成配置"。

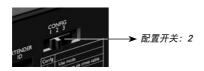
提示 为确保性能最佳,请使用专用网络进行所有 Pronto 通信。这样,Pronto 网络就不会受到其它网络和网络设置更改的影响。

直接连接到 PC 完成配置

1 使用配置缆线(即附送的 以太网交叉线缆)将延伸 器与 PC 连接起来。



- 2 确保在配置延伸器时将 PC 切换到 DHCP (通常这是默认的)。
- 3 将配置开关设置为2开始配置:



延伸器将重新启动。成功启动之后,电源指示灯和以太网指示灯亮绿光,忙指示灯闪烁红光/绿光。

- 4 打开浏览器。
- 5 在浏览器的地址栏中键入延伸器的 IP 地址: 192.168.8.80。 (该地址还印在延伸器的背面。) 您可能必须刷新浏览器,然后才会打开配置工具。

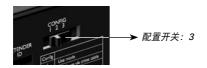
- 6 确保手边准备了 IP 地址和子网掩码,然后按屏幕上的说明操作。
- **7** 在完成配置之后,**断开**延伸器与计算机的连接,然后使用以太网直线缆将延伸器重新连接到路由器。将配置开关设置为1开始使用。

通过路由器完成配置

1 延伸器已连接到路由器。 还需要将路由器连接到 PC。



2 将配置开关设置为 3 开始配置:



延伸器将重新启动。成功启动之后,电源指示灯和以太网指示灯亮绿光,忙指示灯闪烁红光/绿光。

- **3** 在 PC 上打开 ProntoEdit Professional。
- 4 在 "工具" 菜单中,选择 "Extender Discovery"(延伸器发现)。 此时将打开延伸器发现工具,上面显示了在 Pronto 网络中检测到的所有延伸器 的列表。
- 5 选择您要配置的延伸器,然后单击 "Configure" (配置) 按钮。 此时配置工具将在浏览器中打开。
- 6 确保手边准备了 IP 地址和子网掩码,然后按屏幕上的说明操作。
- **7** 在完成配置之后,断开延伸器与计算机的连接,然后使用以太网直线缆将延伸器重新连接到路由器。将配置开关设置为 1 开始使用。

提示 如果**延伸器发现工具没有识别您的延伸器**,请按第 10 页上的说明,直接使用配置线缴配置延伸器。

支持

■故障种类和处理方法

指示灯的指示含义

指示灯	以太网指示灯	łt
绿色闪烁	正在确定延伸器的 IP 地址。	延伸器正在忙于处理来自控制板的代码 或短宏。
绿色	延伸器功能正常。	延伸器正在忙于处理来自控制板的长宏。
红色/绿色闪烁		正在配置延伸器。
红色	请参阅第 12 页上的 "存在 IP 冲突" 主题。	请参阅第13页上的 "存在重复的延伸器 ID"主题。
红色闪烁	请参阅第 12 页上的 "无法确定 IP 地址" 主题。	延伸器正在启动。等待启动完成。

存在 IP 冲突

在网络中有另一个 A/V 组件使用的固定 IP 地址与延伸器相同。在配置工具中更改延伸器的 IP 地址。

如果问题仍然存在, 请检查路由器设置。

无法确定 IP 地址

- 在**使用**延伸器时:确保已使用以太网直线缆将延伸器连接到路由器。
- 在配置延伸器时: 确保 PC 没有使用固定 IP 地址, 而是使用 DHCP。
- 确保路由器电源已打开。如果路由器使用 DHCP,将无法确定延伸器的 IP 地址。 确保在路由器上使用了正确的网络设置。

查找 A/V 组件 IR 接收器的准确位置

- 1 取下双红外发射器的保护带。
- 2 将双红外发射器的功率大小设置到最小,然后将其中一个发射器的粘合面放在 A/V 组件前面 0.4 0.8 英寸/1 2 厘米的位置。
- 3 确保已经将控制板配置为能够在 Pronto 系统中正确工作(例如,配置为 WiFi,而不是 IR)。
- 4 将发射器移过 A/V 组件的前面板,同时使用控制板向 A/V 组件发送命令。 注意 A/V 组件在什么时候对发射器的 IR 信号有反应。
- 5 在 A/V 组件有反应时, 即将发射器放在相应位置。

使用延伸器操作 A/V 组件

A/V 组件对延伸器发出的命令没有反应。

- 检查使用控制板发送命令时忙指示灯是否呈绿色闪烁。如果忙指示灯不闪烁, 表明延伸器没有接收控制板发出的命令。
 - 确保在 ProntoEdit Professional 中正确配置了控制板:
- 确保在配置工具中正确配置了延伸器, 并且已正确连接到 A/V 组件;
- 确保正确设置了延伸器上的开关。

存在重复的延伸器 ID

使用延伸器 ID 开关,为同一 Pronto 网络中的每个延伸器指定唯一的 ID。确保在 ProntoEdit Professional 中正确配置了控制板:

可以在同一个 Pronto 网络中使用 16 个不同的延伸器。

重置延伸器

仅在延伸器显示异常状况时, 才有必要执行此操作。

要执行重置、请从延伸器上拔下电源适配器插头。等候几秒钟、再将其插上。

固件更新

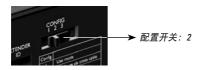
在有可用的延伸器固件更新时,会在飞利浦 Pronto 网站 <u>www.pronto.philips.com</u> 予以 公布。

注意 您始终可以在配置工具中查看固件的当前版本。

- 1 在 PC 上下载固件的新版本, 然后保存在所需的位置。
- 2 拔掉延伸器的插头。您可以按下述的方法之一更新固件。

使用配置线缆更新延伸器

- 1 使用配置缆线(即附送的以太网交叉线缆)将延伸器与 PC 连接起来。
- 2 确保在配置延伸器时将 PC 切换到 DHCP (通常这是默认的)。
- 3 将配置开关设置为 2 开始配置:



延伸器将重新启动。成功启动之后,电源指示灯和以太网指示灯亮绿光,忙指示灯闪烁红光/绿光。

- 4 打开浏览器。
- **5** 在浏览器的地址栏中键入延伸器的 **IP 地址**: 192.168.8.80。(该地址还印在延伸器的背面。)

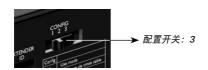
您可能必须刷新浏览器, 然后才会打开配置工具。

- 6 在左导航窗格中选择 "Firmware Update" (固件更新)。 此时将打开"固件更新"页面。
- 7 按照屏幕上的说明操作。 在系统要求您浏览到更新文件时,您需要选择之前从网站上下载的 ZIP 文件。

通过路由器更新延伸器

如果延伸器已安装并连接到设备,则通过路由器更新延伸器可能更方便。

- 1 延伸器已连接到路由器。还需要将路由器**连接**到 PC。
- 2 将配置开关设置为 3 开始配置:



延伸器将重新启动。成功启动之后,电源指示灯和以太网指示灯亮绿光,忙指示灯闪烁红光/绿光。

- **3** 在 PC 上打开 ProntoEdit Professional。
- **4** 在"工具"菜单中,选择**"Extender Discovery"**(延伸器发现)。 此时将打开延伸器发现工具,上面显示了在 Pronto 网络中检测到的所有延伸器 的列表。
- 5 选择您要配置的延伸器,然后单击 "Configure"(配置)按钮。 此时配置工具将在浏览器中打开。
- 6 在左导航窗格中选择 "Firmware Update"(固件更新)。 此时将打开"固件更新"页面。
- 7 按照屏幕上的说明操作。 在系统要求您浏览到更新文件时,您需要选择之前从网站上下载的 ZIP 文件。

提示 如果延伸器发现工具没有认出您的延伸器,请按第 10 页上的说明,直接使用配置线缆更新延伸器。

规格

基于 IP 的延伸器盒,用于远程"Pronto 控制板"操作。 深灰色金属外壳,可安装在 19 英寸机架上,也可以自由摆放 一个系统中最多可以有 16 个延伸器和 16 个控制板
5 V 直流电源输入 4 个用于 IR 发射器可寻址输出 以太网 RJ45 连接 4 个标准的 RS232 控制端口 4 个电源传感输入: 4-30 V 直流或 4-30 V 交流 RMS 4 个中继输出: 48 V 直流或 48 V 交流 RMS, 2 A (最大功率 60 W) 通常使用时的电压输出: 5 V 直流, 0.3 A
延伸器 ID: 16 个位置 IR 功率输出: 2 个级别(普通、低) 配置: 使用模式,使用交叉线缆或通过路由器配置
"电源"、"网络"和"忙"三个指示灯 4个用于 IR 输出的指示灯 4个用于 RS232 输出的指示灯 4个用电源传感输入的指示灯 4个用于中继输出的指示灯
16.9 x 9.4 x 1.8 英寸(428 x 240 x 46 毫米) 61.7 盎司(1.75 千克)
32°F 至 122°F (0°C 至 50°C)
IR 频率范围: 25 kHz – 1 MHz (包括 DC/Flash Code) IR 功率输出: 2 个级别(普通 = 25 mA, 低 = 10 mA)
2个双高频 IR 发射器: 串联方式连接,迷你插孔接头,线缆长度9英尺(2.7米) 2条单一迷你插孔到迷你插孔的线缆: 0.13 英寸(3.5毫米),线缆长度5英尺(1.5米)电源适配器100 V-240 V 交流/50-60 Hz(5 V 直流,2 A 输出,UL-CE 认证)配置线缆在19英寸机架上安装时使用的托架在19英寸机架上安装时需要的安装材料用户指南保修卡

Pronto 串口延伸器用户指南

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本用户指南的概念和实现:

Human Interface Group, De Regenboog 11, 2800 Mechelen (比利时) www.higroup.com

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RFX9600 Starter's Guide

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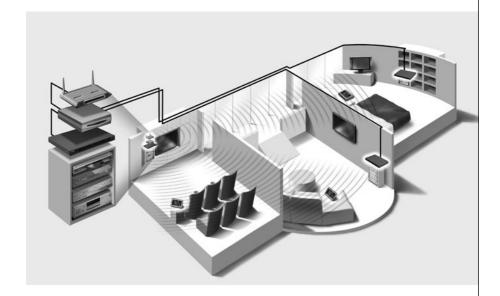
Before You Start

The Pronto Serial Extender is an important element of the Pronto System and makes it possible to control A/V equipment via RF in the entire house. In addition, it can be connected to A/V equipment via RS232 and allows you to use power sensing for reliable power on/off switching. You can also use it to control drapes and projector lifts, for example.

In order to use the Extender in a wireless Pronto Network:

- Install the Extender: connect it to a router and external equipment, like a TV or receiver.
- Configure the Extender: connect it to the PC and use the Configuration Tool.

The Extender is used in a network with a Wireless Access Point and/or a router, as illustrated below.

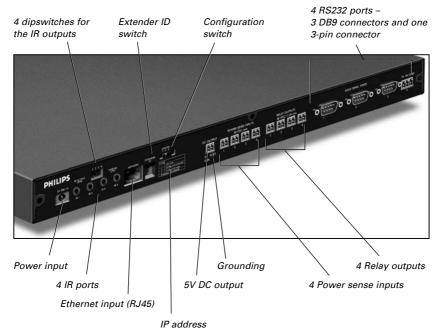


Unpacking the Extender

Pronto Serial Extender



Back Panel



Power Adapter



Configuration Cable



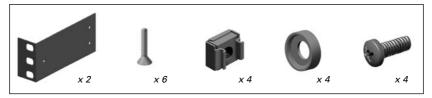
2 Dual IR Emitters



2 Mini-jack IR Cables



Mounting Kit

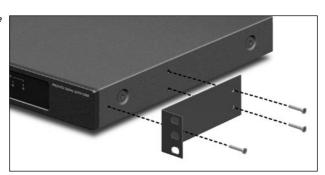


Installing the Extender

Mounting the Extender in a Rack

Warning Keep the Extender away from heat sources such as amplifiers.

Fit the mounting plate on the Extender with the screws.



Attach the Extender to a rack, using the screws, washers and nuts.



Connecting the Extender to External Equipment

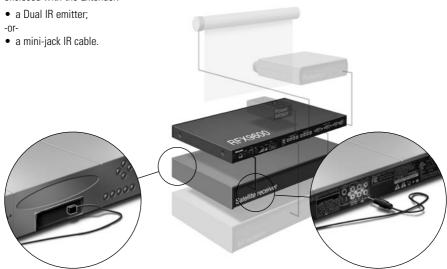
The Extender can be connected to external equipment through the various outputs on the back panel.

Warning Make sure that the equipment is always turned off before connecting it to the Extender.

Attaching the Extender to Infrared Controlled A/V equipment

For the Extender to transmit an IR signal, you need to connect it to the A/V component via the IR Output on the back of the Extender. In contrast to previous Philips Extenders, the RFX9400 has no IR blaster.

To connect the Extender to infrared controlled A/V equipment, use one of the following cables enclosed with the Extender:



Insert the mini-jack in the Extender and attach an emitter to the infrared display of the infrared controlled device.

Insert one mini-jack in the Extender and the other in the infrared controlled device.

Adjusting the Power Level of the IR Outputs

At the back of the Extender there are 4 dipswitches, one for each IR output. Use these dipswitches to reduce the power level of the Dual IR emitters and the mini-jack cables.

This is useful when you suspect that the IR signal is too strong for the receiving A/V component, or when you connect the IR port to an external IR-bus system.

Using the Sensor Inputs

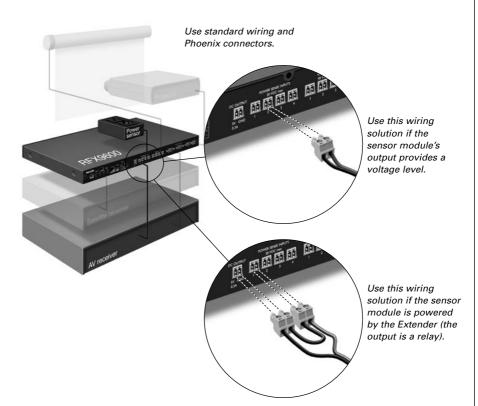
When the Control Panel sends out a macro to switch multiple A/V components on or off, discrete codes are normally used to ensure the state of the component. In some cases, only toggle codes are available: one command toggles between the on and off state, and there is no separate command for switching the component on and switching it off. In this event, the system may get out of sync. This problem can be solved by using power sensing:

- A power sensor connected to an A/V component can detect whether it is switched on or off.
 By connecting the power sensor to the Extender, this information is subsequently transmitted to the Extender.
- Some A/V components, such as receivers, have mini-jack outputs specifically for this purpose. These mini-jack outputs can be connected to the power sense inputs on the Extender.
- For video sources, video sensor modules can be used.

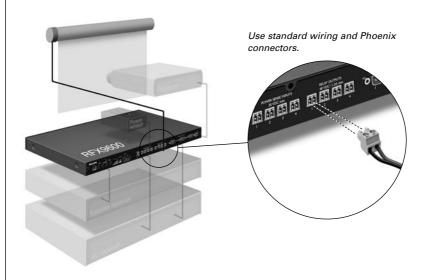
Make sure that you create the specific power sensing commands in the action list of **ProntoEdit Professional**.

Note

Sensor modules are not delivered with the Extender, but most available modules are compatible with the Extender. The power sense inputs are triggered by a voltage input between 5V and 30V.

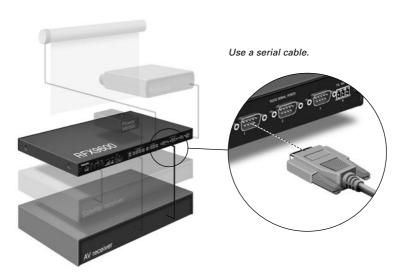


Connecting to Relay-controlled Equipment

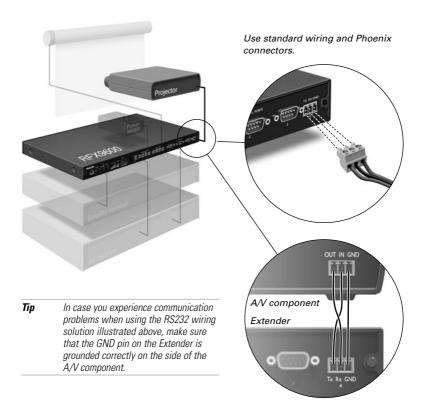


Connecting to Serial Equipment

There are two ways to connect serial equipment to the Extender:



Note For most A/V components a standard female to male or female RS232 cable can be used.



Connecting to a Lutron RadioRa Lighting System

- 1 Connect the Lutron Lighting System to the Extender via the RS232 port. Refer to chapter 'Connecting to Serial Equipment' on page 7.
- 2 Open ProntoEdit Professional.
- 3 Open the configuration file.
- 4 Insert the Lutron Lighting System in the configuration file.

Note If there are multiple Extenders, add these Extenders to the configuration file via the **System Properties** before configuring the Lutron Lighting System.

- 5 Open the Lutron Lighting System Properties.
- 6 Adjust the **settings** of the Lutron Lighting System:
 - Select the Extender to which the Lutron Lighting System is connected.
 - 2 Select the port on the Extender to which it is connected.

Inserting a Multimedia Server in the Network

You can add an Escient Media Server or an Imerge Sound Server to your network.

- Connect the Server to the router.
- 2 Open ProntoEdit Professional.
- 3 Open the configuration file.
- 4 To insert a Multimedia Server in the configuration file, click the 'Insert Escient Media Server' button or the 'Insert Imerge Sound Server' button.
- 5 Open the Multimedia Server Properties.
- 6 Adjust the **settings** of the Multimedia Server:
 - If the Multimedia Server has a fixed IP-address, fill in that IP-address.
 - If it has a dynamic IP-address, fill in its host name.

Inserting a Windows MCE PC as a Music Server

Before you can add the MCE PC in the Pronto Network as a Music Server, you need to install specific software on the MCE PC. You can purchase this software via our website www.pronto.philips.com. You find more instructions in the **Downloads** section.

Note You need to buy one license for each MCE PC you want to add to the Pronto Network.

- 1 Connect the PC to the router.
- 2 Open ProntoEdit Professional.
- 3 Open the configuration file.
- 4 Insert the PC in the configuration file by clicking the button Insert Windows Media Center
- 5 Open the Windows Media Center Properties.
- 6 Adjust the settings of the Windows Media Center PC:
 - If the PC has a fixed IP-address, fill in that IP-address.
 - If it has a dynamic IP-address, fill in its host name.

Connecting the Extender to the Network

The Extender is normally ready for use and does not need to be configured. The settings need only be adjusted in case you wish to operate the Extender with a fixed IP-address, or if there is more than one Extender in the Pronto Network.

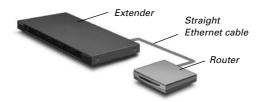
Note

Before you start using or configuring the Extender, check if any firmware updates are available in the **Downloads** section on www.pronto.philips.com.

Refer to the chapter 'Firmware Update' on page 13 for further details.

Using the Extender

 Connect the Extender to the router with a straight Ethernet cable.



- 2 Set the Extender ID switch to 1 or to an ID that is not yet used by another Extender in the Pronto Network.
- 3 Set the Configuration switch to 1 for use:



4 Plug in the Extender's power adapter.

The Extender will start up. After startup, the Power and Ethernet LEDs are green. The Busy LED blinks green when it's processing a code or a macro.

Configuring the Extender

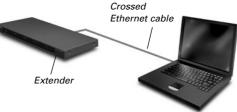
You can connect the Extender directly to the PC for configuration.

If the Extender is already installed and connected to external equipment, it is also possible to configure it through a router. For further instructions, refer to the topic 'Configuration through a router' on page 11.

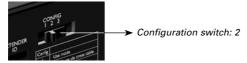
Tip To ensure optimal performance, use a dedicated network for all Pronto communication. This makes the Pronto Network independent of other networks and changes in network settings.

Configuration with a direct connection to the PC

1 Connect the Extender to the PC with the configuration cable (this is the crossed Ethernet cable enclosed).



- Make sure that the PC is switched to DHCP while the Extender is in configuration (normally, this should already be the case).
- 3 Set the Configuration switch to 2 for configuration:



The Extender will restart. After start-up, the Power and Ethernet LEDs are green and the Busy LED is red/green blinking.

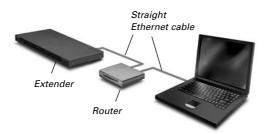
- 4 Open the browser.
- Type the **IP address** of the Extender in the address bar of the browser: 192.168.8.80. (This is also printed on the back of the Extender.)

You may have to refresh the browser before the **Configuration Tool** appears.

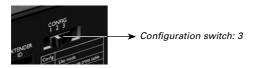
- 6 Make sure you have the IP address and netmask at hand, and follow the onscreen instructions.
- When the configuration is completed, disconnect the Extender from the computer and reconnect it to the router with a straight Ethernet cable. Set the Configuration switch to 1 for use.

Configuration through a router

 The Extender is already connected to the router.
 Connect the router to the PC as well



2 Set the Configuration switch to 3 for configuration:



The Extender will restart. After start-up, the Power and Ethernet LEDs are green and the Busy LED is red/green blinking.

- 3 Open ProntoEdit Professional on the PC.
- 4 In the Tools menu, select Extender Discovery. The Extender Discovery tool appears, with a list of all the detected Extenders in the Pronto Network.
- 5 Select the Extender that you want to configure and click on the Configure button. The Configuration Tool opens in the browser.
- 6 Make sure you have the IP address and netmask at hand, and follow the onscreen instructions.
- When the configuration is completed, disconnect the Extender from the computer and reconnect it to the router with a straight Ethernet cable. Set the Configuration switch to 1 for use.

Tip When the Extender is **not recognized by the Extender Discovery tool**, configure the Extender directly with the configuration cable, as described on page 10.

Support

Troubleshooting

What Do the LEDs Indicate?

Colors	Ethernet LED	Busy
Green blinking	The Extender's IP address is being determined.	The Extender is busy processing a code or short macro from a Control Panel.
Green	The Extender is functioning normally.	The Extender is busy processing a long macro from a Control Panel.
Red/green blinking		The Extender is in configuration.
Red	Refer to the topic 'There is an IP conflict' on page 12.	Refer to the topic 'There are duplicate Extender IDs' on page 13.
Red blinking	Refer to the Refer to the topic 'The IP address cannot be determined' on page 12.	The Extender is starting up. Wait until startup has finished.

There is an IP conflict

There is another A/V component in the network that is using the same fixed IP address as the Extender. Change the IP address of the Extender in the Configuration Tool.

If the problem persists, check the router settings.

The IP address cannot be determined

- When using the Extender: make sure that the Extender is connected to the router with a straight Ethernet cable.
- When configuring the Extender: make sure the PC is not using a fixed IP address but is using DHCP instead.
- Make sure the router is switched on. If the router is using DHCP, the Extender's IP address cannot be determined. Make sure to use the correct network settings on the router.

Finding the Exact Location of an A/V component's IR Receiver

- 1 Remove the protective tape of the Dual IR emitters.
- 2 Set the Dual IR emitters to the minimal power level, and hold the adhesive side of one of the emitters 0.4 0.8 inch / 1 2 cm in front of the A/V component.
- 3 Make sure the Control Panel is configured to operate correctly within the Pronto system (e.g.: configured for WiFi, not for IR).
- 4 Move the emitter across the front panel of the A/V component, and at the same time, send commands with the Control Panel to the A/V component.
 Take note of when the A/V component reacts to the IR signals of the emitter.
- 5 When the A/V component reacts, position the emitter in that place.

Operating A/V components with the Extender

The A/V components do not respond to commands from the Extender

- Check if the Busy LED blinks green when you send a command with the Control Panel. If the Busy LED does not blink, the Extender is not receiving commands from a Control Panel.
- Make sure that the Control Panel is configured correctly in **ProntoEdit Professional**;
- Make sure that the Extender is configured correctly in the Configuration Tool and connected properly to the A/V components;
- · Make sure that the switches on the Extender are set correctly.

There are duplicate Extender IDs

Using the Extender ID switch, assign a unique ID to each Extender in the same Pronto Network. Make sure the Control Panel is configured accordingly in **ProntoEdit Professional**.

You can use up to 16 different Extenders in the same Pronto Network.

Resetting the Extender

This is only necessary when the Extender shows unusual behavior.

To perform a reset, unplug the power adapter from the Extender. Wait a few seconds, and plug it in again.

Firmware Update

When an update of the Extender firmware is available, this will be announced on the Philips Pronto website: www.pronto.philips.com.

Note You can always see the current version of the firmware in the Configuration Tool.

- Download the new version of the firmware on the PC and save it in the desired location.
- 2 Unplug the Extender. You can now update it in one of the ways described below.

Updating the Extender with the Configuration Cable

- Connect the Extender to the PC with the configuration cable (this is the crossed Ethernet cable enclosed).
- Make sure that the PC is switched to DHCP while the Extender is in configuration (normally, this should already be the case).
- 3 Set the Configuration switch to 2 for configuration:



The Extender will restart. After start-up, the Power and Ethernet LEDs are green and the Busy LED is red/green blinking.

- 4 Open the browser.
- Type the IP address of the Extender in the address bar of the browser: 192.168.8.80.
 (This is also printed on the back of the Extender.)

You may have to refresh the browser before the **Configuration Tool** appears.

6 Select Firmware Update in the left navigation pane.

The Firmware Update page opens.

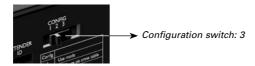
7 Follow the onscreen instructions.

When you are asked to browse to the update file, you need to select the ZIP file you downloaded earlier from the website.

Updating the Extender through a Router

If the Extender is already installed and connected to equipment, it may be more convenient to update it through the router.

- 1 The Extender is already connected to the router. **Connect** the router to the PC as well.
- 2 Set the Configuration switch to 3 for configuration:



The Extender will restart. After start-up, the Power and Ethernet LEDs are green and the Busy LED is red/green blinking.

- 3 Open ProntoEdit Professional on the PC.
- 4 In the Tools menu, select Extender Discovery.

The Extender Discovery tool appears, with a list of all the detected Extenders in the Pronto Network.

- 5 Select the Extender that you want to configure and click on the Configure button. The Configuration Tool opens in the browser.
- 6 Select Firmware Update in the left navigation pane.

The Firmware Update page opens.

7 Follow the onscreen instructions.

When you are asked to browse to the update file, you need to select the ZIP file you downloaded earlier from the website.

Tip When the Extender is **not recognized by the Extender Discovery tool**, update the Extender directly with the configuration cable, as described on page 10.

Specifications

General	IP based Extender box for remote Pronto Control Panel operation Dark grey metal housing for 19" rack mounting or free standing position Up to 16 Extenders and 16 Control Panels in a system
Connectivity	5 VDC power input 4 addressable outputs for IR emitters Ethernet RJ45 connection 4 standard RS232 ports for control 4 power sense inputs: 4-30 VDC or 4-30 VAC rms 4 Relay outputs: 48 VDC or 48 VAC rms, 2 A (max power 60 W) Voltage output for general use: 5 VDC, 0.3 A
Settings	Extender ID: 16 positions IR power output: 2 levels (normal, low) Configuration: Use mode, configure with cross cable or via router
LED indications	3 LEDs for Power, Ethernet and Busy 4 LEDs for IR output 4 LEDs for RS232 output 4 LEDs for power sense input 4 LEDs for relay output
Dimensions/ Weight	16.9 x 9.4 x 1.8 inch (428 x 240 x 46 mm) 61.7 oz (1.75 kg)
Operating temperature	32°F to 122°F (0°C to 50°C)
Infrared (IR)	IR frequency range: 25 kHz – 1 MHz (including DC/flash codes) IR power out: 2 levels (normal = 25 mA, low = 10 mA)
Accessories included	2 double high frequency IR emitters: wired in series, mini-jack connector, cable length 9 ft (2.7 meters) 2 mono mini-jack to mini-jack cables: 0.13 inch (3.5 mm), cable length 5 ft (1.5 m) Power adapter 100 V-240 VAC/ 50-60 Hz (5 VDC, 2 A output, UL-CE approved) Configuration cable Brackets for 19 inch rack mounting Mounting material for 19 inch rack mounting Starter's guide Warranty card

Pronto Serial Extender Starter's Guide

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