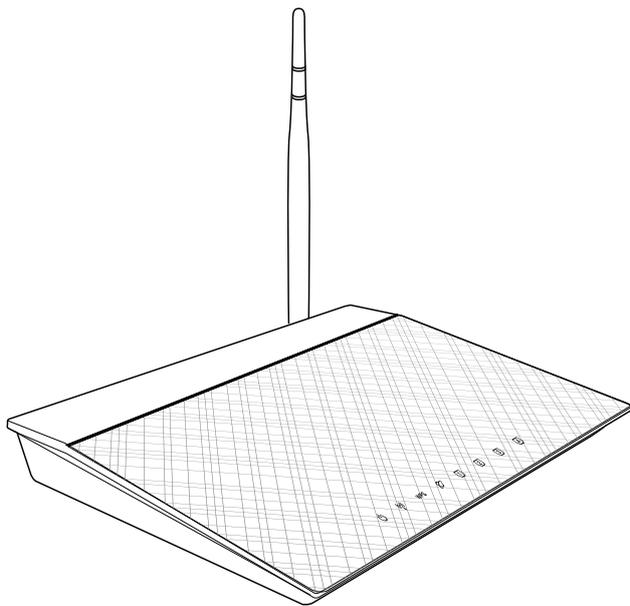


ASUS[®]

RT-N10E
11n 无线路由器



用户手册

C7016

第一版

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关于这本用户手册

产品用户手册包含了所有当您在安装华硕无线路由器时所需用到的信息。

用户手册的编排方式

用户手册是由下面几个章节所组成：

- **第一章：认识您的无线路由器**
本章介绍了此华硕无线路由器的包装内容物、系统要求、硬件功能与 LED 指示灯的信息。
- **第二章：开始使用**
本章介绍如何设置华硕无线路由器的 IP 分享模式、无线网络桥接器模式。
- **第三章：设置局域网内的客户端**
本章介绍如何设置无线路由器局域网内的客户端。
- **第四章：设置高级程序**
本章介绍如何设置华硕无线路由器高级程序。
- **第五章：安装华硕应用程序**
本章介绍了应用程序光盘内的应用程序信息。
- **第六章：疑难排解**
本章介绍了您在使用华硕无线路由器过程中可能遇到的一些常见问题的解决方法。
- **附录**
本章介绍一些常用安全信息。

提示符号



警告：提醒您在进行某一项工作时要注意您本身的安全。



小心：提醒您在进行某一项工作时要注意勿伤害到设备元件。



重要：此符号表示您必须要遵照手册所描述之方式完成一项或多项软硬件的安装或设置。



注意：提供有助于完成某项工作的诀窍与其他额外的信息。

1 认识您的 无线路由器

包装内容物

请检查以下配件是否齐全：

- RT-N10E 无线路由器 × 1
- 电源适配器 × 1
- 应用程序光盘（用户手册、应用程序）× 1
- RJ45 网线 × 1
- 快速使用指南 × 1



注意：若以上列出的任何一项配件有损坏或是短缺的情形，请尽快与您的经销商联络。

系统需求

安装华硕无线路由器之前，请确认您的系统/网络是否符合以下要求：

- 一个以太网 RJ-45 接口 (10Base-T/100Base-TX)
- 至少一个支持无线功能的 IEEE 802.11b/g/n 设备
- 一台已安装 TCP/IP 与网络浏览器的电脑

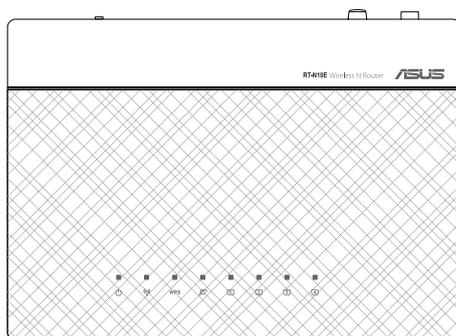
开始安装之前

安装华硕无线路由器之前，请注意以下几点：

- 连接设备与网络（网络集线器、ADSL/Cable Modem、路由器）的网线长度须小于 100 米。
- 将设备放在平坦、稳定的地方，并尽量靠近地面。
- 请勿将设备放在靠近金属物品与阳光直射的地方。
- 请将路由器远离适配器、重型发动机、荧光照明器、微波炉、冰箱与其他工业设备以防信号丢失。
- 建议将路由器放置在中心区域，以覆盖所有无线移动设备。
- 请将路由器放置在远离人体至少 20 厘米的地方。

硬件设备

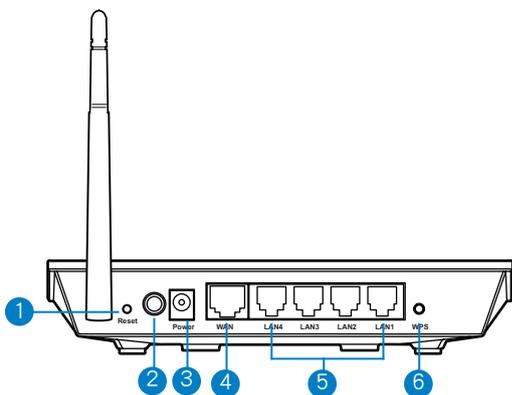
前面板



状态指示灯

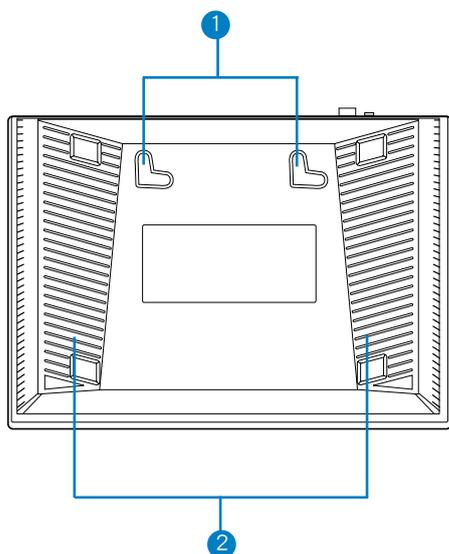
LED	状态	代表含义
电源	熄灭	电源关闭
	灯亮	系统待机中
WLAN	熄灭	电源关闭
	灯亮	无线系统待机中
	闪烁	传输或接收数据中（无线网络）
WPS	快速闪烁	WPS 进行中
	闪烁一次	系统重置为初始状态
	缓慢闪烁	救援模式
WAN (广域网)	熄灭	电源关闭 / 无物理连接
	灯亮	与一组以太网网络建立物理连接
	闪烁	传输或接收数据中（通过有线以太网网络）
LAN 1-4 (局域网)	熄灭	电源关闭 / 无物理连接
	灯亮	与一组以太网网络建立物理连接
	闪烁	传输或接收数据中（通过有线以太网网络）

后面板



项目	描述
①	重置按钮 按住此按钮 5 秒以上将系统还原至其初始设置。
②	电源开关 按下此开关开启或关闭路由器。
③	电源 (DC-In) 输入接口 将适配器插入此接口将您的路由器连接至一个电源。
④	WAN 接口 将一根 RJ-45 以太网线插入此接口建立广域网连接。
⑤	LAN 1 ~ 4 接口 将一根 RJ-45 以太网线插入此接口建立局域网连接。
⑥	WPS 按钮 按下此按钮建立无线连接。

底部



项目	描述
①	安装挂钩 在墙上安装两颗螺丝后可将路由器挂在墙面上。
②	通风孔 这些通风孔用于路由器的通风散热。



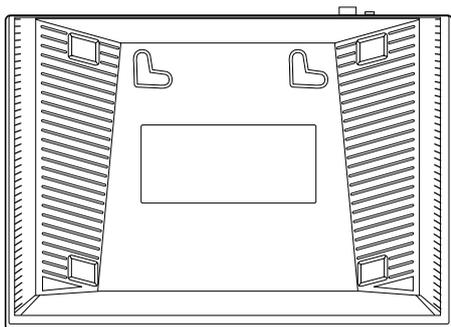
注意：更多关于安装路由器的信息，请参考下一页中“安装路由器”的说明。

安装路由器

华硕无线路由器可安装在高处的平面上，如衣橱或书架上，也可以固定于墙上或天花板。

请依照以下步骤安装华硕无线路由器：

1. 找到路由器底部的两个安装挂钩。
2. 在墙上或高处的平面上标注两个孔位。
3. 将两颗螺丝拧紧直到只露出 1/4。
4. 将无线路由器挂到墙上的螺丝上。



注意：若螺丝太松或无法将华硕无线路由器挂到螺丝上，请调整螺丝位置。

2 开始使用

设置无线路由器

华硕无线路由器包含一个网页图形界面（web GUI），您可以利用电脑上的网络浏览器进行无线路由器的设置。



更多关于通过网页图形界面设置无线路由器的信息，请参考“第四章：设置高级程序”。

设置网络连接

网络设置向导（QIS）（含自动侦测功能）

网络设置向导（QIS）功能引导您快速设置您的网络连接。

请依照以下步骤使用拥有自动侦测功能的网络设置向导：

1. 开启一个网络浏览器。此路由器可自动侦测您的 ISP 连接类型：自动获取 IP、PPPoE、固定 IP、PPTP 与 L2TP。为您的 ISP 连接类型输入所需信息。



重要！ 请从您的 ISP 获取网络连接类型的相关信息。



注意：

- 若网络设置向导 (QIS) 未能侦测您的网络连接类型，点击【**略过并手动设置**】，手动设置您的连接类型。
- 若网络设置向导 (QIS) 为自动登录。在您的浏览器中输入 <http://192.168.1.1> 并手动登录网络设置向导 (QIS)。更多信息请查阅下一章节“网络设置向导 (QIS) (无自动侦测功能)”。

2. 输入网络名称与网络密钥组建一个安全无线网络，然后点击【**完成**】。
3. 网络连接设置完成。



在以下选项中选择下一个您想要执行的任务：

1. 前往我的首页：点击此选项开启网络浏览或其他网络相关任务，如聊天或阅读 / 编辑 e-mail 信息。
2. 到高级设置页面：点击此选项进入无线路由器网页图形界面，并进行您的无线网络安全设置。
3. 加入我的最爱：点击此选项将路由器的网络界面添加至您的最爱。



注意：若您选择选项 2 与 3，那么您需要登录网页图形界面。更多信息请参考“登录网页图形界面”部分的说明。

网络设置向导（QIS）（无自动侦测功能）

请依照以下步骤使用无自动侦测功能的网络设置向导：

1. 在您的浏览器中输入 <http://192.168.1.1>。
2. 在导航菜单中选择网络设置向导 QIS。从下列 ISP 服务中选择您的连接类型：自动获取 IP、PPPoE、固定 IP、PPTP 与 L2TP。



3. 点击【应用当前所有设置】来保存所有设置。



重要！请从您的 ISP 获取网络连接类型的相关信息。

访问无线路由器

为有线或无线客户端设置一个 IP 地址

为使用华硕无线路由器，您的有线或无线客户端上必须有正确的 TCP/IP 设置。请确认客户端的 IP 地址与华硕无线路由器一致。

华硕路由器内置 DHCP 服务器功能，当系统开启时，它将自动分配 IP 地址到网络中的客户端。

但在某些情况下，您可能需要手动指定某些您网络内的客户端或电脑的静态 IP 地址，而不是通过您的无线路由器自动取得 IP 地址。

以下是设置您电脑的步骤。请依照您所使用的操作系统选择适当的操作步骤。

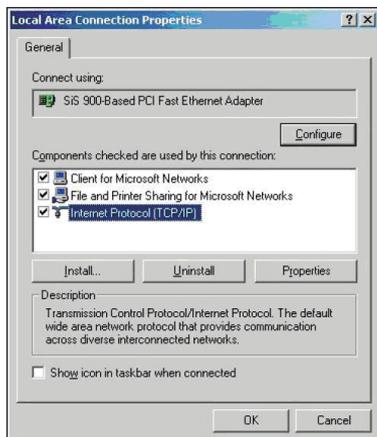


注意：在“IP 分享模式”中，如果您想手动指定一个 IP 地址，推荐使用下列设置：

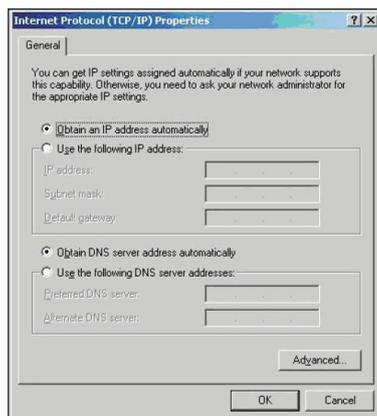
- IP 地址：192.168.1.xxx (xxx 可为 2 至 254 之间的数字)。请确认该 IP 地址没有被其他设备使用。
- 子网掩码：255.255.255.0 (与华硕无线路由器一致)
- 默认网关：192.168.1.1 (华硕无线路由器的 IP 地址)
- DNS：192.168.1.1 (华硕无线路由器) 或者指定一个网络内的已知 DNS 服务器。

Windows® 2000

1. 依次选择【Start】>【Control Panel】>【Network and Dial-up Connection】。右键选择【Local Area Connection】，然后选择【Properties】。

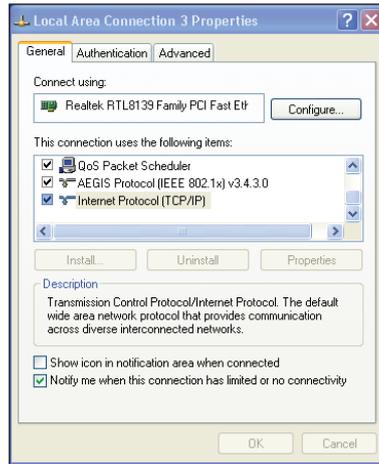


2. 选择【Internet Protocol (TCP/IP)】，然后选择【Properties】。
3. 若您想要使用路由器自动指定的 IP 地址，请选择【Obtain an IP address automatically】。或者，您也可以选择【Use the following IP address】，手动输入 IP 地址（IP Address）、子网掩码（Subnet Mask）与默认网关（Default gateway）。
4. 若您想要自动获取 DNS 服务器，请选择 Obtain DNS server address automatically。或者，您也可以选择【Use the following DNS server address】，手动输入首选与备用 DNS 服务器 IP 地址（Preferred/Alternate DNS server）。
5. 完成后选择【OK】。

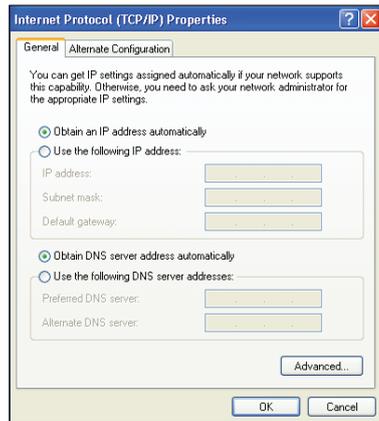


Windows® XP

1. 依次选择【Start】>【Control Panel】>【Network Connection】。右键选择【Local Area Connection】，然后选择【Properties】。

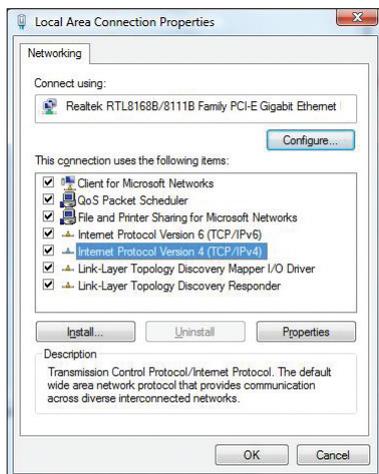


2. 选择【Internet Protocol (TCP/IP)】，然后选择【Properties】。
3. 若您想要使用路由器自动指定的 IP 地址，请选择【Obtain an IP address automatically】。或者，您也可以选择【Use the following IP address】，接着手动输入 IP 地址 (IP Address)、子网掩码 (Subnet Mask) 与默认网关 (Default gateway)。
4. 若您想要自动获取 DNS 服务器，请选择【Obtain DNS server address automatically】。或者，您也可以选择【Use the following DNS server address】，手动输入首选与备用 DNS 服务器 IP 地址 (Preferred/Alternate DNS server)。
5. 完成后选择【OK】。

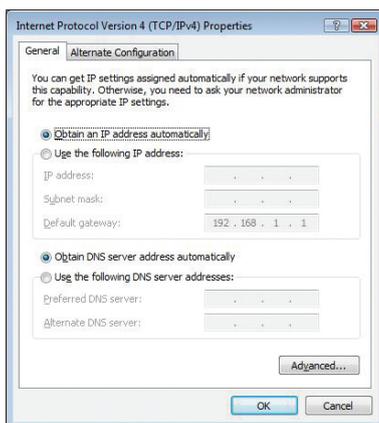


Windows® Vista/7

1. 依次选择【Start】>【Control Panel】>【Network and Internet】>【Network and Sharing Center】，接着选择【View status】>【Properties】>【Continue】。



2. 选择【Internet Protocol Version 4 (TCP/IPv4)】，接着选择【Properties】。
3. 若您想要使用路由器自动指定的 IP 地址，请选择【Obtain an IP address automatically】或者，您也可以选择【Use the following IP address】，接着手动输入 IP 地址 (IP Address)、子网掩码 (Subnet Mask) 与默认网关 (Default gateway)。
4. 若您想要自动获取 DNS 服务器，请选择 Obtain DNS server address automatically 或者，您也可以选择 Use the following DNS server addresses 手动输入首选与备用 DNS 服务器 IP 地址 (Preferred/Alternate DNS server)。
5. 完成后选择【OK】。



4 设置高级程序

使用服务质量（QoS）管理带宽

服务质量（QoS）允许您设置带宽优先级并管理网络交通。

请按照以下步骤设置带宽优先级：

1. 从左边的导航菜单中，点击【高级设置】>【外部网络】>【带宽管理】。
2. 在“启用 QoS 栏”中勾选【是】。
3. 欲创建网络带宽管理规则，在“地址类型”选择【IP】或【MAC】，并根据需要设置相应规则。
4. 点击【应用本页设置】保存设置。



设置操作模式

您可将您的无线路由器设置为以下两种模式：**IP 分享模式**、**无线网络桥接器模式**。

在“IP 分享模式”中设置无线路由器

在“IP 分享模式”中，无线路由器通过 PPPoE、自动获取 IP、PPTP、L2TP 或固定 IP 方式连接互联网，并提供无线信号。LAN 客户端的 NAT、防火墙与 IP 分享服务开启。

请依据以下步骤设置“IP 分享模式”中的无线路由器：

1. 在导航菜单中点击【高级设置】>【系统管理】>【操作模式】。
2. 勾选【IP 分享模式（默认）】并点击【保存】。



3. 在导航菜单中点击网络设置向导。从下列 ISP 服务中选择您的连接类型：**自动获取 IP**、**PPPoE**、**固定 IP**、**PPTP** 与 **L2TP**。



3. 点击【下一步】并输入您的 ISP 服务提供的所需信息。



重要！请从您的 ISP 获取网络连接类型的相关信息。

在“无线网络桥接器”中设置无线路由器

在“无线网络桥接器”中，无线路由器从连接到 WAN 端口的路由器收到 WAN IP 地址，并为用户提供无线信号。NAT、防火墙与 IP 分享服务会自动关闭。

请依据以下步骤设置“无线网络桥接器”中的无线路由器：

1. 在导航菜单中点击【高级设置】>【系统管理】>【操作模式】。
2. 选择【无线网络桥接器】，并点击【保存】。



3. 输入你的网络名称 (SSID) 与网络密钥。完成后点击【完成】。



WPS

WPS (Wi-Fi Protected Setup) 帮助您轻松地设置一个安全的无线网络。



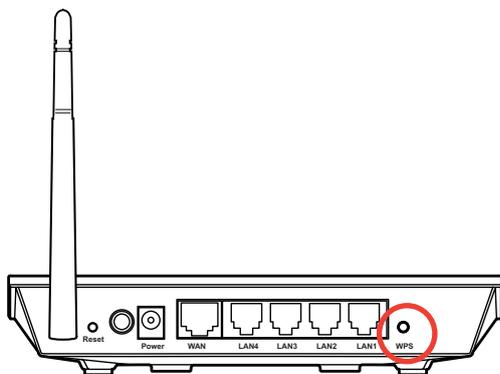
注意：

- 请使用支持 WPS 功能的无线网卡。
- 请使用下列支持 WPS 功能的 Windows® 操作系统与无线网卡：

操作系统支持	无线网卡支持
Vista 32/64	Intel® 无线网卡
	华硕 167g V2 驱动程序 v3.0.6.0 或更新版本
	华硕 160N/130N 驱动程序 v2.0.0.0 或更新版本
XP SP2	Intel® 无线网卡
	华硕 167g V2 驱动程序 v1.2.2.0 或更新版本
	华硕 160N/130N 驱动程序 v1.0.4.0 或更新版本
XP SP1 与 2000	华硕网卡，具备 ASUS WLAN 应用程序
	华硕 167g V2 驱动程序 v1.2.2.0 或更新版本
	华硕 160N/130N 驱动程序 v1.0.4.0 或更新版本

请按照以下步骤设定 WPS：

1. 按下路由器上的 WPS 按钮。



2. 点击【起始 PBC】。您也可以选择输入无线网卡的 PIN 码，然后点击【起始 PIN】。



注意：请参阅无线网卡的使用手册获取无线网卡的 PIN 码。

固件升级



注意：请访问华硕简体中文网站 (<http://www.asus.com.cn>) 下载最新固件。

请依照以下步骤进行固件升级：

1. 选择屏幕左边导航菜单中的【高级设置】。
2. 选择【系统管理】菜单下的【固件升级】。
3. 在新固件文件中选择【浏览】，开启您要升级的固件文件。
4. 选择【上传】，过程将需要大约三分钟。



注意：如果升级进程失败，请使用 Firmware Restoration 应用程序恢复系统。详情请参考“第五章：固件恢复 (Firmware Restoration)”的有关内容。

恢复 / 导出 / 上传设置

请依照以下步骤进行恢复 / 导出 / 上传设置：

1. 选择屏幕左边导航菜单中的【高级设置】。
2. 选择【系统管理】菜单下的【恢复 / 导出 / 上传设置】。



3. 选择您想要进行的操作：
 - 欲恢复为原厂初始设置，选择【恢复】，然后按下确认信息中的【确定】。
 - 欲导出现有系统设置，选择【保存】，然后选择文件下载窗口中的【保存】将您的系统文件保存在您想要保存的位置下。
 - 欲恢复系统设置，选择【浏览】开启您欲恢复的系统文件，然后按下【上传】。

5 安装华硕 应用程序

安装华硕应用程序

应用程序光盘包含用于设置华硕无线路由器的应用程序。在 Microsoft® Windows 操作系统下安装华硕无线路由器应用程序，请将应用程序光盘插入光盘机。如果未开启“自动播放”功能，请选择应用程序光盘根目录中的 setup.exe。

请依照以下步骤安装应用程序：

1. 选择主菜单【安装华硕无线路由器应用程序】选项，来执行安装程序。



2. 选择【下一步】继续。



3. 确认应用程序所安装的位置后选择【下一步】。



4. 请选择一个程序文件夹，然后选择【下一步】继续。



5. 选择【完成】退出安装程序。



侦测设备（Device Discovery）

Device Discovery 是一款华硕 WLAN 应用程序，可以侦测到一个华硕无线路由器设备，并且允许您设置该设备。

请依照以下步骤开启 Device Discovery 应用程序：

- 在您的电脑桌面上选择【开始】>【所有程序】>【ASUS Utility】>【RT-N10E Wireless Router】>【Device Discovery】。



- 选择【配置】进入网页图形界面来设置无线路由器。
- 选择【搜索】来搜索华硕无线路由器。
- 选择【退出】退出此应用程序。

固件恢复（Firmware Restoration）

Firmware Restoration 应用程序用于在固件升级失败时搜索升级失败的华硕无线路由器，然后恢复或上传您指定的固件。此过程需要 3 至 4 分钟。



重要：在使用 Firmware Restoration 之前，请开启救援模式。

请依照以下步骤开启救援模式并使用 Firmware Restoration 应用程序：

1. 拔掉无线路由器的电源。
2. 持续按住后面板上的 Reset 按钮，同时把路由器重新接上电源。当前面板上的 WPS 灯开始慢闪时，放开按钮。此时，路由器已进入救援模式。
3. 在您的电脑桌面上选择【开始】>【所有程序】>【ASUS Utility】>【RT-N10E Wireless Router】>【Firmware Restoration】。



4. 选择固件文件，然后选择【上传】。



注意：Firmware Restoration 不是固件升级应用程序，并且不能用于正在运行的华硕无线路由器上。正常固件升级应该在网页图形界面中完成，详细信息请参考“第四章：使用网页图形界面设置无线路由器”。

疑难排解

本章节帮您排解在安装与使用华硕无线路由器时的常见疑难问题。若有无法自行解决的疑难或本章节未提及问题，请联络华硕技术支持。

疑难	排解
无法建立无线网络连接	<p>超出有效范围：</p> <ul style="list-style-type: none">• 请将路由器放置于较靠近客户端设备之处。• 尝试进行频道设置的变更。 <p>认证问题：</p> <ul style="list-style-type: none">• 请使用有线连接的电脑来连接路由器。• 检查网络安全设置。• 您可以尝试按路由器后方的重置 (Reset) 按钮超过 5 秒钟后，进行硬件重置 (hardware reset) 的动作。 <p>无法搜索到路由器：</p> <ul style="list-style-type: none">• 您可以尝试按路由器后方的重置 (Reset) 按钮超过 5 秒钟后，进行硬件重置 (hardware reset) 的动作。• 检查无线网卡上的 SSID 与加密等设置。

疑难	排解
无法通过无线路由器来连接至互联网	<ul style="list-style-type: none"> • 请将路由器更换至客户端可以连接到的范围内。 • 检查您所使用的无线网卡是否有连接到正确的路由器。 • 检查所使用的无线网络频道是符合您的所在地区 / 国家所规范的频道。 • 检查加密设置。 • 检查您所使用的 ADSL 或 Cable Modem 是否有连接至正确的网络口。 • 重新更换另一条以太网线来连接。
无法进入互联网	<ul style="list-style-type: none"> • 请检查 ADSL 调制解调器与无线路由器上的 LED 灯所显示的信号是否正确。 • 请检查 WAN 灯在路由器上是否有亮。若指示灯没有显示亮着 (on) 的状态，请检查连接两者的网线，并再重新测试一遍。
当 ADSL 调制解调器“Link” (连接) 的灯号亮着 (不是闪烁)，这表示已经可以连接至互联网。	<ul style="list-style-type: none"> • 重新启动您的电脑。 • 重新设置华硕路由器，请参考快速使用指南。 • 检查 WAN LED 信号灯是否亮着。 • 检查无线网络加密的设置。 • 检查欲与路由器连接的电脑是否能取得 IP 地址 (通过有线网络与无线网络两者是否皆可)。 • 检查您的网络浏览器 (如 IE) 是否设置为采用局域网，并且不采用代理服务器 (proxy)。

疑难	排解
<p>如何将系统恢复到初始值？</p>	<p>以下为原厂初始的参考数值，若您按住在路由器上的 Reset（重置）钮超过 5 秒钟，或于【系统设置】>【原厂默认值】画面中，按【恢复】按钮而回到初始值状态时，则在路由器上的相关的设置，会恢复到原厂初始的数值，其数值则如以下所列。</p> <p>用户名称：admin 密码：admin 启用 DHCP:Yes（如果已连接 WAN 网线） IP 地址：192.168.1.1 网域名称：(空白) 子网掩码：255.255.255.0 DNS 服务器 1：192.168.1.1 DNS 服务器 2：(空白) SSID：default</p>
<p>无法使用 192.168.1.1 进入网页图形界面。</p>	<p>请检查路由器的操作模式。</p> <ul style="list-style-type: none"> • 在 IP 分享模式中，初始 IP 地址为：192.168.1.1。 • 在无线网络桥接器模式中，使用 Device Discovery 来获取路由器的 IP 地址。

Notices

Federal Communications Commission Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

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 communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Prohibition of Co-location

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Safety Information

To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with minimum distance 20cm between the radiator and your body. Use on the supplied antenna.

Declaration of Conformity for R&TTE directive 1999/5/EC

Essential requirements – Article 3

Protection requirements for health and safety – Article 3.1a

Testing for electric safety according to EN 60950-1 has been conducted. These are considered relevant and sufficient.

Protection requirements for electromagnetic compatibility – Article 3.1b

Testing for electromagnetic compatibility according to EN 301 489-1 and EN 301 489-17 has been conducted. These are considered relevant and sufficient.

Effective use of the radio spectrum – Article 3.2

Testing for radio test suites according to EN 300 328- 2 has been conducted. These are considered relevant and sufficient.

CE Mark Warning

This is a Class B product, in a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

Operation Channels: Ch1~11 for N. America, Ch1~14 Japan, Ch1~13 Europe (ETSI)

IC Warning

The Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulation.

Cet appareil numérique de la class B respecte toutes les exigences du Reglement sur le materiel brouilleur du Canada.

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Version 2, June 1991

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REACH

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Safety Warning

SAFE TEMP: This wireless router should be only used in environments with ambient temperatures between 5°C(41°F) and 40°C(104°F).

DO NOT expose to or use near liquids, rain, or moisture. DO NOT use the modem during electrical storms.

ASUS Recycling/Takeback Services

ASUS recycling and takeback programs come from our commitment to the highest standards for protecting our environment. We believe in providing solutions for you to be able to responsibly recycle our products, batteries, other components, as well as the packaging materials. Please go to <http://csr.asus.com/english/Takeback.htm> for the detailed recycling information in different regions.

华硕的联络信息

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华硕电脑公司 ASUSTeK COMPUTER INC. (亚太地区)

市场信息

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技术支持

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在线支持：<http://support.asus.com/techserv/techserv.aspx>

ASUS COMPUTER INTERNATIONAL (美国)

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California 94539, USA
电话：+1-510-739-3777
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技术支持

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传真：+1-812-284-0883
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ASUS COMPUTER GmbH (德国/奥地利)

市场信息

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互联网：<http://www.asus.de>
在线联络：<http://www.asus.de/sales>
(仅回答市场相关事务的问
题)

技术支持

电话：+49-1805-010923 (配件) *
电话：+49-1805-010920 (系统 / 笔
记本电脑 / 易家族 / LCD) *
传真：+49-2102-9599-11
在线支持：<http://support.asus.com/techserv/techserv.aspx>

* 使用德國固定電話撥打每分鐘話費為 0.14 歐元，使用手機撥打每分鐘話費為 0.42 歐元。

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	CIZGI Elektronik San. Tic. Ltd. Sti.. Tel: 0090 2123567070 Address: CEMAL SURURI CD. HALIM MERIC IS MERKEZI No:15/C D: 5-6 34394 MECIDIYEKOY/ISTANBUL

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