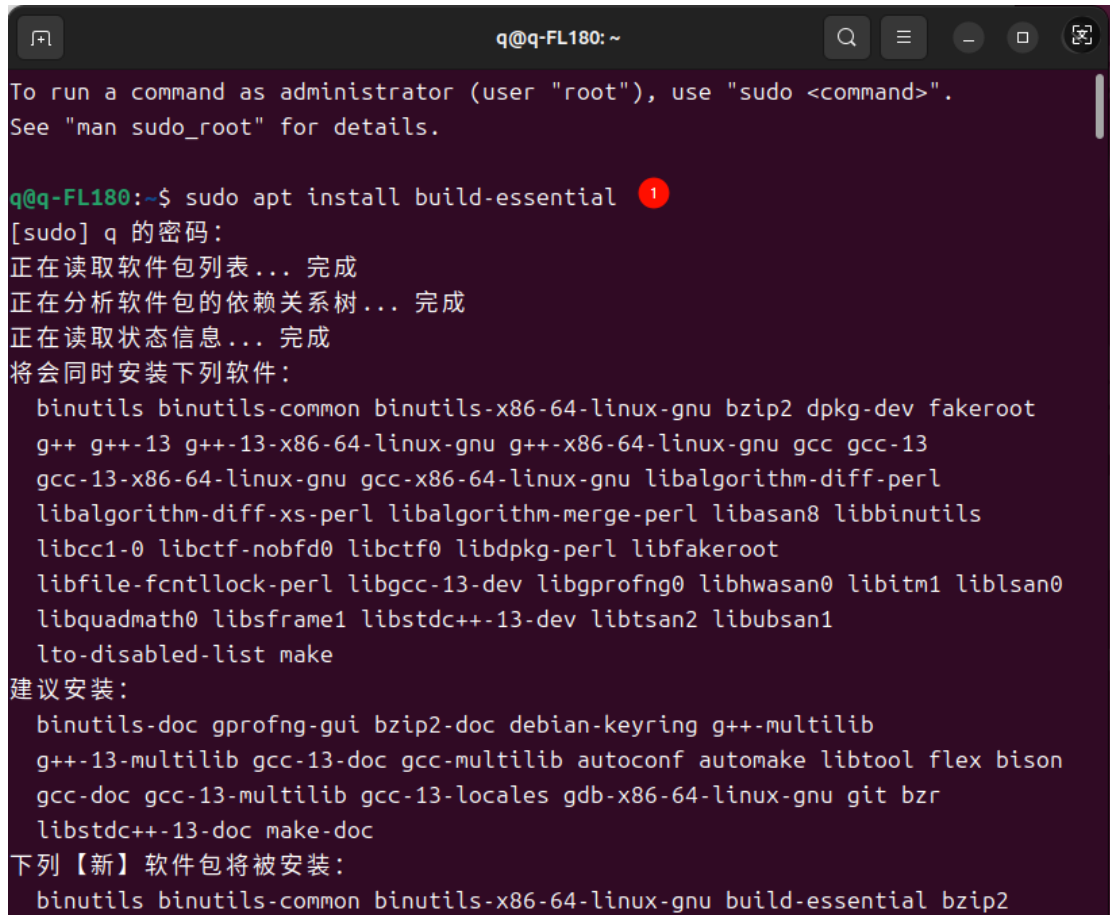


# Realtek 8127 网卡 Linux 系统驱动安装教程

一、Ubuntu 安装:

1、执行以下命令来安装 build-essential, 它会自动安装 make 以及相关依赖: **sudo apt install build-essential**



```
q@q-FL180: ~  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
q@q-FL180:~$ sudo apt install build-essential  
[sudo] q 的密码:  
正在读取软件包列表... 完成  
正在分析软件包的依赖关系树... 完成  
正在读取状态信息... 完成  
将会同时安装下列软件:  
  binutils binutils-common binutils-x86-64-linux-gnu bzip2 dpkg-dev fakeroot  
  g++ g++-13 g++-13-x86-64-linux-gnu g++-x86-64-linux-gnu gcc gcc-13  
  gcc-13-x86-64-linux-gnu gcc-x86-64-linux-gnu libalgorithm-diff-perl  
  libalgorithm-diff-xs-perl libalgorithm-merge-perl libasan8 libbinutils  
  libbcc1-0 libctf-nobfd0 libctf0 libd/pkg-perl libfakeroot  
  libfile-fcntllock-perl libgcc-13-dev libgprofng0 libhwasan0 libitm1 liblsan0  
  libquadmath0 libsframe1 libstdc++-13-dev libtsan2 libubsan1  
  lto-disabled-list make  
建议安装:  
  binutils-doc gprofng-gui bzip2-doc debian-keyring g++-multilib  
  g++-13-multilib gcc-13-doc gcc-multilib autoconf automake libtool flex bison  
  gcc-doc gcc-13-multilib gcc-13-locales gdb-x86-64-linux-gnu git bzip2  
  libstdc++-13-doc make-doc  
下列【新】软件包将被安装:  
  binutils binutils-common binutils-x86-64-linux-gnu build-essential bzip2
```

2、驱动压缩包放在桌面,打开命令终端: 1.用命令解压: **r8127-11.015.00.wo-esd.tar.bz2** (也可以直接点击右键选择提取) →2.进入解压驱动文件→3.运行命令: **sudo ./autorun.sh** 进行安装。

```
q@q-FL180: ~  
q@q-FL180:~$ tar -xjvf r8127-11.015.00.wo-esd.tar.bz2 2  
r8127-11.015.00.wo-esd/Makefile  
r8127-11.015.00.wo-esd/README  
r8127-11.015.00.wo-esd/autorun.sh  
r8127-11.015.00.wo-esd/src/  
r8127-11.015.00.wo-esd/src/Makefile  
r8127-11.015.00.wo-esd/src/Makefile_linux24x  
r8127-11.015.00.wo-esd/src/r8127.h  
r8127-11.015.00.wo-esd/src/r8127_dash.h  
r8127-11.015.00.wo-esd/src/r8127_fiber.c  
r8127-11.015.00.wo-esd/src/r8127_fiber.h  
r8127-11.015.00.wo-esd/src/r8127_firmware.c  
r8127-11.015.00.wo-esd/src/r8127_firmware.h  
r8127-11.015.00.wo-esd/src/r8127_n.c  
r8127-11.015.00.wo-esd/src/r8127_ptp.c  
r8127-11.015.00.wo-esd/src/r8127_ptp.h  
r8127-11.015.00.wo-esd/src/r8127_realwow.h  
r8127-11.015.00.wo-esd/src/r8127_rss.c  
r8127-11.015.00.wo-esd/src/r8127_rss.h  
r8127-11.015.00.wo-esd/src/rtltool.c  
r8127-11.015.00.wo-esd/src/rtltool.h  
r8127-11.015.00.wo-esd/src/rtl_eeprom.c  
r8127-11.015.00.wo-esd/src/rtl_eeprom.h  
q@q-FL180:~$
```

```
q@q-FL180: ~/r8127-11.015.00.wo-esd  
r8127-11.015.00.wo-esd/src/rtl_eeprom.h  
q@q-FL180:~$ cd r8128-11.015.00.wo-esd  
bash: cd: r8128-11.015.00.wo-esd: 没有那个文件或目录  
q@q-FL180:~$ cd r8127-11.015.00.wo-esd 3  
q@q-FL180:~/r8127-11.015.00.wo-esd$ sudo ./autorun.sh 4  
  
Check old driver and unload it.  
Build the module and install  
warning: the compiler differs from the one used to build the kernel  
The kernel was built by: x86_64-linux-gnu-gcc-13 (Ubuntu 13.3.0-6ubuntu2~24.04  
) 13.3.0  
You are using: gcc-13 (Ubuntu 13.3.0-6ubuntu2~24.04) 13.3.0  
Skipping BTF generation for r8127.ko due to unavailability of vmlinux  
Warning: modules_install: missing 'System.map' file. Skipping depmod.  
Backup r8169.ko.zst  
rename r8169.ko.zst to r8169.zst.bak  
DEPMOD 6.14.0-27-generic  
load module r8127  
Updating initramfs. Please wait.  
update-initramfs: Generating /boot/initrd.img-6.14.0-27-generic  
dracut-install: Failed to find module 'r8169' /lib/modules/6.14.0-27-generic/ker  
nel/drivers/net/ethernet/realtek/r8169.zst.bak  
Completed.  
q@q-FL180:~/r8127-11.015.00.wo-esd$
```

## 二、CentOs 安装

1、执行以下命令来安装 gcc,它会自动安装 make 以及相关依赖: `sudo yum install make gcc`



```
q@localhost:~$ sudo yum install make gcc 1

我们信任您已经从系统管理员那里了解了日常注意事项。
总结起来无外乎这三点：

#1) 尊重别人的隐私。
#2) 输入前要先考虑(后果和风险)。
#3) 权力越大，责任越大。

For security reasons, the password you type will not be visible.

[sudo] q 的密码：
CentOS Stream 10 - BaseOS          433 kB/s | 6.7 MB    00:15
CentOS Stream 10 - AppStream       4.3 MB/s | 3.4 MB    00:00
CentOS Stream 10 - Extras packages  17 kB/s | 7.3 kB     00:00
依赖关系解决。
=====
 软件包                架构      版本                仓库                大小
=====
安装：
  gcc                  x86_64    14.3.1-2.1.el10    appstream            38 M
  make                 x86_64    1:4.4.1-9.el10     baseos                587 k
安装依赖关系：
  cpp                  x86_64    14.3.1-2.1.el10    appstream            13 M
```

2、执行以下命令来安装 Development Tools 软件包组: `sudo yum groupinstall "Development Tools"`

```
q@localhost:~
License GPLv3+: GNU GPL version 3 or later <https://gnu.org/licenses/gpl.html>
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.
q@localhost:~$ sudo yum groupinstall "Development Tools" 2
[sudo] q 的密码:
上次元数据过期检查: 0:05:31 前, 执行于 2025年09月22日 星期一 13时55分44秒。
依赖关系解决。
-----
软件包                                架构  版本                                仓库  大小
-----
安装组/模块包:
asciidoc                               noarch 10.2.0-12.el10                    appstream 429 k
autoconf                               noarch 2.71-13.el10                      appstream 736 k
automake                               noarch 1.16.5-20.el10                    appstream 702 k
bison                                  x86_64 3.8.2-9.el10                      appstream 1.0 M
byacc                                  x86_64 2.0.20230521-7.el10               appstream 116 k
diffstat                              x86_64 1.66-3.el10                       appstream 46 k
flex                                   x86_64 2.6.4-19.el10                    appstream 298 k
gcc-c++                                x86_64 14.3.1-2.1.el10                  appstream 15 M
gdb                                    x86_64 16.3-2.el10                      appstream 152 k
git                                    x86_64 2.47.3-1.el10                   appstream 51 k
intltool                              noarch 0.51.0-29.el10                   appstream 56 k
jna                                    x86_64 5.14.0-7.el10                    appstream 288 k
libtool                                x86_64 2.4.7-13.el10                    appstream 599 k
ltrace                                 x86_64 0.7.91-52.el10                   appstream 134 k
```

2、驱动压缩包放在桌面,打开命令终端: 1.用命令解压: `tar -xjvf r8127-11.015.00.wo-esd.tar.bz2`→2.进入解压驱动文件→3.运行命令: `sudo ./autorun.sh` 进行安装, 安装成功需要重启电脑。

```
q@localhost:~$ tar -xjvf r8127-11.015.00.wo-esd.tar.bz2 3
r8127-11.015.00.wo-esd/Makefile
r8127-11.015.00.wo-esd/README
r8127-11.015.00.wo-esd/autorun.sh
r8127-11.015.00.wo-esd/src/
r8127-11.015.00.wo-esd/src/Makefile
r8127-11.015.00.wo-esd/src/Makefile_linux24x
r8127-11.015.00.wo-esd/src/r8127.h
r8127-11.015.00.wo-esd/src/r8127_dash.h
r8127-11.015.00.wo-esd/src/r8127_fiber.c
r8127-11.015.00.wo-esd/src/r8127_fiber.h
r8127-11.015.00.wo-esd/src/r8127_firmware.c
r8127-11.015.00.wo-esd/src/r8127_firmware.h
r8127-11.015.00.wo-esd/src/r8127_n.c
r8127-11.015.00.wo-esd/src/r8127_ptp.c
r8127-11.015.00.wo-esd/src/r8127_ptp.h
r8127-11.015.00.wo-esd/src/r8127_realwow.h
r8127-11.015.00.wo-esd/src/r8127_rss.c
r8127-11.015.00.wo-esd/src/r8127_rss.h
r8127-11.015.00.wo-esd/src/rtltool.c
r8127-11.015.00.wo-esd/src/rtltool.h
r8127-11.015.00.wo-esd/src/rtl_eeprom.c
r8127-11.015.00.wo-esd/src/rtl_eeprom.h
q@localhost:~$
```

```
q@localhost:~/r8127-11.015.00.wo-esd
~/r8127-11.015.00.wo-esd

valgrind-gdb-1:3.25.1-3.el10.x86_64
valgrind-scripts-1:3.25.1-3.el10.x86_64
xz-devel-1:5.6.2-4.el10.x86_64
zlib-ng-compat-devel-2.2.3-2.el10.x86_64
zstd-1.5.5-9.el10.x86_64

完毕!
q@localhost:~$ cd r8127-11.015.00.wo-esd 4
q@localhost:~/r8127-11.015.00.wo-esd$ sudo ./autorun.sh 5
[sudo] q 的密码:

Check old driver and unload it.
Build the module and install
Skipping BTF generation for /home/q/r8127-11.015.00.wo-esd/src/r8127.ko due to u
navailability of vmlinux
At main.c:171:
- SSL error:FFFFFFFF80000002:system library::No such file or directory: crypto/b
io/bss_file.c:67
- SSL error:10000080: BIO routines::no such file: crypto/bio/bss_file.c:75
sign-file: ./certs/signing_key.pem
DEPMOD 6.12.0-128.el10.x86_64
load module r8127
Completed.
q@localhost:~/r8127-11.015.00.wo-esd$
```