



How To Install ALFA AWUS1900 Kali Linux 2018.4

Install **ALFA AWUS1900** Kali Linux.

Alfa AWUS1900 is a quad antenna 802.11ac Wi-Fi USB receiver boasting router connection speeds of up to 1900 Mbps (1300 Mbps for 5 Ghz + 600 Mbps for 2.4 Ghz).

It is compatible with Microsoft Windows 7, 8/8.1, and Windows 10, connects to the OS by USB 3.

Four transmit/four receive (4T4R) dual band antenna allows utilization of both 2.4 and 5 Ghz radio bands on 802.11ac routers for a combined max connect rate of 1900 mbps.

The antennas can be detached and extended or upgraded.

Step 1: Update the system

1.1 Update and upgrade

```
sudo apt-get update && apt-get upgrade
```

1.2 Update dependence

```
sudo apt-get dist-upgrade -y
```

Step 2: Install Chipset Drivers

2.1 Before we begin to install ALFA AWUS1900, confirm that the network card is connect to Kali Linux by displaying USB connected devices

```
sudo lsusb
```

```
root@GalaxyS9:~# sudo lsusb
Bus 004 Device 002: ID 0bda:8813 Realtek Semiconductor Corp.
Bus 004 Device 001: ID 1d6b:0003 Linux Foundation 3.0 root hub
Bus 002 Device 005: ID 0e0f:0002 VMware, Inc. Virtual USB Hub
Bus 002 Device 004: ID 0e0f:0002 VMware, Inc. Virtual USB Hub
Bus 002 Device 003: ID 0e0f:0008 VMware, Inc.
Bus 002 Device 002: ID 0e0f:0003 VMware, Inc. Virtual Mouse
Bus 002 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 003 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
root@GalaxyS9:~#
```

2.2 Install realtek chipset RTL8814U drivers

```
sudo apt install realtek-rtl88xxau-dkms
```

2.3 Reboot and reconnect

```
sudo reboot
```

2.4 Confirm that the card is installed and running

```
sudo ifconfig
```

```
root@GalaxyS9:~# sudo ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.10.128 netmask 255.255.255.0 broadcast 192.168.10.255
    inet6 fe80::20c:29ff:fed0:e17a prefixlen 64 scopeid 0x20<link>
    ether 00:0c:29:d0:e1:7a txqueuelen 1000 (Ethernet)
    RX packets 193 bytes 21265 (20.7 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 58 bytes 4527 (4.4 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 28 bytes 1596 (1.5 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 28 bytes 1596 (1.5 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wlan0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
```

```
ether 5a:00:35:a3:b4:70 txqueuelen 1000 (Ethernet)
RX packets 0 bytes 0 (0.0 B)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 0 bytes 0 (0.0 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
root@GalaxyS9:~#
```

```
sudo iwconfig
```

```
root@GalaxyS9:~# sudo iwconfig
wlan0 IEEE 802.11 ESSID:off/any
      Mode:Managed Access Point: Not-Associated Tx-Power=18 dBm
      Retry short limit:7 RTS thr:off Fragment thr:off
      Encryption key:off
      Power Management:off
lo no wireless extensions.

eth0 no wireless extensions.

root@GalaxyS9:~#
```

2.5 If the above don't work then install the packets bellow.

In the git directory you will find a dkms installation script, execute the script to fix the installation.

```
sudo apt install dkms &&
sudo apt-get install bc &&
sudo apt-get install build-essential &&
sudo apt-get install linux-headers-$(uname -r)
sudo git clone https://github.com/aircrack-ng/rtl8812au
```

Step 3: Set The Card In Monitor Mode

3.1 You have to set the monitor mode manually on the AWUS036ACH & AWUS1900

```
## Set interface down
sudo ip link set wlan0 down

## Set monitor mode
sudo iwconfig wlan0 mode monitor

## Set interface up
sudo ip link set wlan0 up
```

3.2 Confirm monitor mode

```
sudo iwconfig
```

```
root@GalaxyS9:~# iwconfig
wlan0      IEEE 802.11  Mode:Monitor  Frequency:5.3 GHz  Tx-Power=18 dBm
          Retry short limit:7   RTS thr:off   Fragment thr:off
          Power Management:off
lo         no wireless extensions.

eth0      no wireless extensions.

root@GalaxyS9:~#
```

3.3 Test the card by sniffing nearby networks

```
sudo airodump-ng wlan0
```

```
CH 7 ][ Elapsed: 1 min ][ 2018-12-23 17:32
  BSSID          PWR  Beacons    #Data, #/s  CH  MB   ENC  CIPHER AUTH ESSID
  84:C9:B2:6A:9E:90  -49      6         0   0   1  130  WPA2  CCMP   PSK   HonnyP01
root@GalaxyS9:~#
```

3.4 Changing adapter back to managed mode

```
## Set interface down
sudo ip link set wlan0 down

## Set managed mode
sudo iwconfig wlan0 mode managed

## Set interface up
sudo ip link set wlan0 up
```

Step 4: Optional Commands

4.1 Change TX power

```
sudo iwconfig wlan0 txpower 30

## OR

sudo iw wlan0 set txpower fixed 3000
```

4.2 Set channel manually

```
## Set channel 6, width 40 MHz:
sudo iw wlan0 set channel 6 HT40-

## Set channel 149, width 80 MHz:
```

```
sudo iw wlan0 set freq 5745 80 5775
```

Conclusion

We have installed ALFA AWUS1900 on Kali Linux and change the mode to monitor mode on the network card

Check out the [Ethical Hacking](#) notes for more Kali Linux quick guides.