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Wi-Fi Deauther

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ABSTRACT

It is true that every technology has its advantages and disadvantages regardless of its complexity and perfectness. It is true in case of jamming also. It has many advantages in battles, cold conflicts between two nations. In many countries, deauthers are illegal, except in the military, law enforcement and other government agencies, where deauthers are largely used to prevent bomb detonation or to isolate suspects in hostage situation.

I.INTRODUCTION

Deauther are usually undetectable, and users may experience minimal effects such as poor signal reception. Deauther devices may be used in any location but are typically deployed where cell phone use may be discruptive, such as in libraries and restaurants. Handheld deauther are capable of disrupting signals within nine to 30 meters, while more powerful Jammer create a huge bubble stretching as far as a mile or 1.6 kilometers.

II.SHAPES AND SIZES OF DEAUTHER

Portable and compact devices, like mobile phones Box-shaped units that are similar to routers Larger and far-reaching briefcase-style format

III.CORE PARTS OF DEAUTHER

- (1) An antenna to connect the device.
- (2) A power supply or battery.
- (3) Circuitry, which includes a voltage-controlled oscillator, tuning circuit, noise generator and radio frequency (RF) amplification.

IV.TYPES OF DEAUTHERS

- O Cellular Jammer
- O Drone Detection & Jamming
- O Counter Surveillance Devices

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- O Convoy Jammer
- O Communications Intelligence
- O Tactical Jammer
- O Wi-Fi Jammer
- O Cellular Deauther:

Portable and Stationary Cellular deauther for different Applications.

O Drone Detection & Deauther:

Detection & Jamming of Unauthorized Drones

O Counter Surveillance Devices:

Non-Linear Junction Detectors, Bug Detectors and Counter Measurement.

O Convoy Deauther:

Military Vehicles and Luxury Vehicles for Convoy & VIP Protection against RCIED.

O Communications Intelligence:

Know exactly what is going on in a covered area and control it

O Tactical Jammers:

High-End Portable Back Pack Jammers and Trolley Jammers against RCIED

O Wi-Fi Jammer:

Wi-Fi jammer is one of the types of signal deauthers created to help people solve different problems coming from cell phones, radio signals and wireless connections.

V.WI-FI DEAUTHER COMPONENTS

(i) Software:

ARDUINO IDE

(ii) Hardware:

NODEMCU (ESP8266)

USB CABLE

VI, NODEMCU

- NodeMCU is an open source of Internet of things platform.
- **O** It includes firmware which runs on the ESP8266 Wi-Fi SoC from Embedded System, and hardware which is based on the ESP-12 module.
- $\mbox{\bf O}$ The term "NodeMCU" by default refers to the firmware rather than the dev kits.
- **O** The firmware uses the C++ scripting language.
- It is based on the WiFi project, and built on the Espressif Non-OS SDK for ESP8266.
- O It uses many open source projects.

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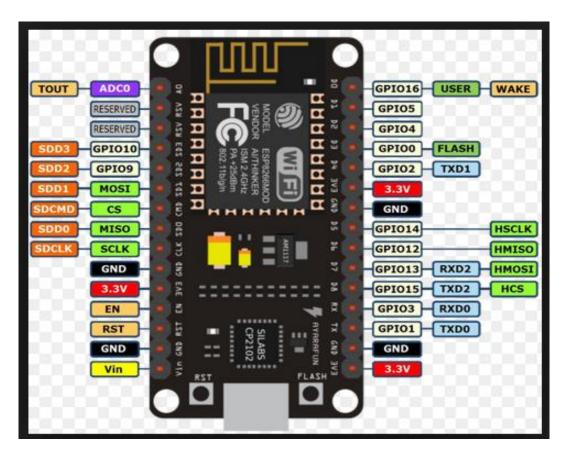


Fig. NodeMCU

VII.PURPOSE OF DEAUTHER

There are several purposes for which a deauther can be used. Let's take a look at them:

Militaryservices:

• Prevent terrorist attacks by means of remote-controlled bombs.

Civil and paramilitary purposes:

- · Prevent bugs from transmitting data, therefore rendering them useless.
- Do not allow GPS locators' transmission.
- Help achieve quietness and silence in a conference room during a meeting.
- Forbid employees from making calls and sending text messages.

VIII. FUTURE ASPECTS OF DEAUTHER

O Military applications:

Now-a-days any disturbances caused by terrorists are antisocial elements is caused by using cellular phones and other wireless communication technologies. So there is a huge scope for using deauthers in military applications.

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O Normal Day-to-Day Life

As many countries considered jamming as illegal act and doesn't support private jamming there are some places like movie theaters, hospitals and shopping malls where we can use the deauthers to avoid disturbances. In important meetings signal deauthers are used to avoid the leakage of information before officially announcing it.

IX.ADVANTAGES OF DEAUTHER

- For any government to make its country peaceful without any extremities it should maintain a balance between ends of any technology.
- O Jamming is used as an effective medium to increase the advantages of wireless technology without allowing it to fall in wrong hands.
- **O** In many countries, deauthers are illegal, except in the military, law enforcement and other government agencies, where deauthers are largely used to prevent bomb detonation or to isolate suspects in hostage situations.

X.CONCLUSION

It is true that every technology has its advantages and disadvantages regardless of its complexity and perfectness. It is true in case of jamming also. It has many advantages in battles, cold conflicts between two nations. In many countries, deauthers are illegal, except in the military, law enforcement and other government agencies, where deauthers are largely used to prevent bomb detonation or to isolate suspects in hostage situation.

REFERENCES

- [1.] Thomas Claburn (October 4, 2014), "Marriott Pays \$600,000 For Jamming WiFi Hotspots", Information Week
- [2.] Deauthentication, Aircrack-ng
- [3.] Declan McCullagh (March 10, 2012), Five ways to protect yourself from Wi-Fi honeypots, CNet
- [4.] Darren Kitchen (January 14, 2015), "WiFi Deauth Attacks, Downloading YouTube, Quadcopters and Capacitors", Hak5, episode 1722
- [5.] https://github.com/DanMcInerney/wifijammer
- [6.] https://github.com/Wi-PWN/Wi-PWN
- [7.] https://github.com/spacehuhn/esp8266_deauther
- [8.] https://github.com/seemoo-lab/nexmon
- [9.] Joshua Wright (2005), Weaknesses in Wireless LAN Session Containment