# **Advantech AE Technical Sharing Documentation**

Date	2017 / 04 / 07	SR#	1-2833421267
Category	□ FAQ ■ SOP	Related OS	Ubuntu14.04
Abstract	How to use PCM-24S2WI	F-AE as a Hotspot	under Ubuntu
Keyword	PCM-24S2WF-AE / Ubunt	tu / iDoor / Hotsp	oot
Related			
Product	PCIVI-2452VVF-AE		

### Problem Description:

Users get to use the WIFI module as an Hotspot under Ubuntu. Kindly refer to LINUX online forums for other distributions of LINUX.

# Brief Solution - Step by Step:

### <u>Step1</u>

Make sure the unit is connected to a wired internet cable and is able to access to the internet.

Ping 8.8.8.8

nina	JU CARACTERISTICS AND A CAR
	😸 🗇 💷 test@test-UNO-2272G-J2AE: ~
	test@test-UNO-2272G-J2AE:~\$ ping 8.8.8.8 PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
	64 bytes from 8.8.8.8: icmp_seq=1 ttl=43 time=10.9 ms
	64 bytes from 8.8.8.8: icmp_seq=2 ttl=43 time=11.0 ms
	64 bytes from 8.8.8.8: icmp_seq=3 ttl=43 time=11.0 ms
	64 bytes from 8.8.8.8: icmp_seq=4 ttl=43 time=10.9 ms
	64 bytes from 8.8.8.8: icmp_seq=5 ttl=43 time=11.0 ms ^C
	8.8.8.8 ping statistics 5 packets transmitted, 5 received, 0% packet loss, time 4005ms rtt min/avg/max/mdev = 10.924/11.007/11.099/0.147 ms
	testatest-ono-zzrza-sznzt a

Make sure the WIFI module is recognized by the system.

ifconfig

wlan0 Link encap:Ethernet HWaddr 6c:71:d9:4d:a1:a6 UP BROADCAST MULTICAST MTU:1500 Metric:1 RX packets:0 errors:0 dropped:0 overruns:0 frame:0 TX packets:0 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1000 RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)



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### <u>Step2</u>

Disable Wi-Fi by unselecting the Enable Wi-Fi option.



### <u>Step3</u>

Select Edit Connections... and click Add

Name	Last Used 🔺	Add
Ethernet		Edite
Wired connection 1	4 minutes ago	Euit
▼ Wi-Fi		Delete
AP	4 minutes ago	
	The states of the	
		Close

### <u>Step4</u>

Follow the prompt ups to choose Wi-Fi as the Connection Type

8		
?	Choose a Connection Type Select the type of connection you wish to create.	
	Hardware	
	DSL	
	Ethernet	
	InfiniBand	
	Mobile Broadband	
	Wi-Fi	
	WIMAX	
	Virtual	
	Bond	
	Bridge	
	VLAN	
	VPN	
	Point-to-Point Tunneling Protocol (PPTP)	
	Import a saved VPN configuration	

Set your **Connection name**, **SSID** as desired, set **Mode** to **Infrastructure**, select your WIFI module in **Device MAC address**.

😣 🖱 💿 Editing AP	
Connection name: AP	
General Wi-Fi Wi-Fi	Security IPv4 Settings IPv6 Settings
SSID:	UN02272
Mode:	Infrastructure 🔹
BSSID:	
Device MAC address:	6C:71:D9:4D:A1:A6 (wlan0) 🔹
Cloned MAC address:	
MTU:	automatic - + bytes
	Cancel Save

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# <u>Step5</u>

In Wi-Fi Security tab, select WPA & WAP2 Personal and password as desired.

the second se	8 C Editing AP		
Connection na	me: AP		
General Wi-	Fi Wi-Fi Security IPv4 Settings IPv6 Settings		
Security:	WPA & WPA2 Personal 👻		
Password:	12345678		
	Show password		
1			
	Cancel Save		

In IPv4 Settings, select Shared to other computers

🥺 🖱 💿 🛛 Edi	ting AP
Connection n	ame: AP
General W	i-Fi Wi-Fi Security IPv4 Settings IPv6 Settings
Method: Addresse: Addres	Automatic (DHCP) Automatic (DHCP) addresses only Manual Link-Local Only
Additior	Shared to other computers Disabled
Addition	al search domains:
Requ	ire IPv4 addressing for this connection to complete Routes
	Cancel Save

And click **Save** to save the above settings.

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# <u>Step6</u>

A file will created under the directory /etc/NetworkManager/system-connections For example,

a file called AP is created in my case.

```
root@test-UNO-2272G-J2AE:/etc# cd NetworkManager/
root@test-UNO-2272G-J2AE:/etc/NetworkManager# cd system-connections/
root@test-UNO-2272G-J2AE:/etc/NetworkManager/system-connections# ls
AP
```

root@test-UNO-2272G-J2AE:/etc/NetworkManager/system-connections# gksu gedit AP

gksu gedit AP, a graphic interface editor will show up, edit mode to ap

*AP ×			1
[connection]			
id=AP	2074 724708367bc8		
type=802-11-wireless	09/10-724708507000		
cype-ooz ii werettoo			
[802-11-wireless]			
ssid-UN02272			
mode=ap	A1:A6		
security=802-11-wireless	s-security		
			1
[802-11-wireless-securit	ty]		
key-mgmt=wpa-psk			
psk=12343078			
[ipv4]			
method=shared			
[ipv6]	Ţ		
PIE C1100-80 C0			
	Plain Text * Tab Width: 8 *	Ln 8, Col 8 INS	

When above things are done, save and exit

# <u>Step7</u>

Now enable WIFI from Network Manager and you should see the AP you just set. Use your phone to connect the AP to verify settings are correct.





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# <u>Reference</u>:

**Online Forum Tutorial** 

http://ubuntuhandbook.org/index.php/2014/09/3-ways-create-wifi-hotspot-ubuntu/