## 5.6G Wireless Bridge Quick Start Guide

## AI-CPE



Firstly you need to set one unit to MASTER and one to SLAVE Use the switch at the bottom of the units to select. A = MASTER (no dot on LED) B = SLAVE (little dot will display on LED)

Once you power up the units they go through a cycle and will finally show a number / letter Takes approx - 30 seconds for full boot up. This will indicate which ID they are using.

Both Master and Slave need to be using the same ID or the system will not work: If both units have the same ID number and one is set as MASTER , and one as SLAVE then they should connect automatically and create a bridge network and the Link Lights should be on.

We suggest logging into the units through your Laptop to custom configure the settings, the direct IP address to log in to the units is per the Table. ie If your unit boots up with ID of 1 - and you have it as A - Master then your direct IP address will be 192.168.255.101 and the Slave set as B will be 192.168.255.201

You will need to Manual set your laptop IP address to be on the same network - ie set your laptop to 192.168.255.99

If you want to use a different ID, Then press and hold the selector button for 1 second once you release the number should start flashing Use the button to select a different number, once you select it will Flash L when updating then return to the ID.

Wait a few seconds for the ID number to lock into place.

After connection the ID LED will stay SOLID

If the LED stays flashing then the connection is not working.

You can also see connection on the status LEDs

## NB: Changing the ID setting does a partial factory default of some settings.

We suggest doing this setting before configuration of other options on the device.

Link	Bridge connection is successful, link lights, not connected Off		
LAN1	Turning on the lighting data, the communication flashing, off data nowhere		
LAN2	Turning on the lighting data, the communication flashing, off data nowhere		
PWR	Power indicator, power on		
LED	Display H, expressed configured to manually set state		
LED	L displayed and flashes, represents settings		
LED	Flashing, it indicates to modify the configuration, or is connected to the		
Round light	A, B status lights, light that is not mode A, mode B light that		
RST	1-5s press, led digital automatic increase, 0-F from circulation		
RST	Press over 10s, release the reset, the system automatically restart		

LED	A IP	B IP	2.4 ID	5.8 ID
0	192.168.255.100	192.168.255.200	0	0
1	192.168.255.101	192.168.255.201	1	165
2	192.168.255.102	192.168.255.202	2	161
3	192.168.255.103	192.168.255.203	3	157
4	192.168.255.104	192.168.255.204	4	153
5	192.168.255.106	192.168.255.205	5	149
6	192.168.255.106	192.168.255.206	6	48
7	192.168.255.107	192.168.255.207	7	44
• 8	192.168.255.108	192.168.255.208	8	40
9	192.168.255.109	192.168.255.209	9	36
а	192.168.255.110	192.168.255.210	10	140
b	192.168.255.111	192.168.255.211	11	132
С	192.168.255.112	192.168.255.212	13	124
D	192.168.255.113	192.168.255.213	96	116
E	192.168.255.114	192.168.255.214	50	108
F	192.168.255.115	192.168.255.215	55	100



When you log into the units.

The following screen is where you can manually ,set the settings. Notice you can set MASTER . and the 5.8 ID settings, Plus the fixed IP



Wireless Settin	g	$\odot$
DIP Switch Con switch, when device Mode:	trol: C Enable boot.	Read wireless config from hardware DIP
Matching ID:	165 (5825 MHz) 🗘	
Network Settin	g	$\odot$
Fixed IP Addres	ss: 192.168.255.101	
Hostname:		Only support input 0-9A-Za-z and
	ок	
Virtual Interface(ph	y0/wlan0) Settings	$\odot$
Switch:	✓ Enable	
Name (SSID):	CPE5G_5G165	Hidden
Authorization:	WPA2-PSK 💠	
Password:	generatedpassword	
Access Control:	Only refuse denied static	ons 💠
Wireless Bridge(WDS):	🗹 Enable	
Isolate:	Enable	
Max stations:		
VLAN:		
Delete Virtual Interface:	Delete	

Under the wireless settings - we suggest you make the Bridge link Hidden , once you have everything working.

NB: here this is where the link passwords and SSID are preset based on your ID setting, - You can also limit Slave Stations here.

Radio(phy0) Settings 5G 🛛 📀		
Tx Power:	23 dBm 🗘	
Channel Bandwidth:	20/40 MHz 🛊	
Channel:	165 (5825 MHz) 🗘	
Coverage Distance(m): value will effect performance.	If not set, an default value will be used.	eeded, large
Timed Off:	Enable	
New Virtual Interface:	Create	
Virtual Interface(nhv0/	(wlan(1) Settings	$\odot$

For a more stable network you can set the Coverage distance This optimise's the software.

Region:	New Zealand	
Time Management		$\odot$
Internet Time:	Enable	
Timezone:	(GMT+12:00) Fiji, Kamchatka, Marsha 🗘	
On Time Reboot:	Enable	

We also suggest setting the Region and time settings,

If you want to create a WIFI network from the Slave unit, you can do this under SETTING / WIRELESS

New Virtual Interface:	Create	New Vitrual Inter	face	$\odot$
		Mode:	Access Point(AP) 🕈	
		Name(SSID):	MY_WIFI	ed,
Remember to Enable the network and set	up password			
		Timed Off:	Enable	
		Virtual Interface(phy	0/wlan2) Settings	
		Switch:	✓ Enable	
		Name (SSID):	MY_WIFI Hidden	
		Authorization:	WPA2-PSK 🗘	
		Password:	MYPASSWORD	
		Access Control:	None \$	
		Wireless Bridge(WDS):	Enable	
		Isolate:	Enable	
		Max stations:		
		VLAN:		
		Delete Virtual Interface:	Delete	

Wired Network	Master
Cevice Model: AR9344-5G-LSD Up Time: 0d 1:42:4 System Clock: 2025/01/13 09:40:05	Memory: 48804kB/61952kB Genuine License: Yes
	Status: Linked Netmask: 255.255.0 255.255.0 DNS Server: 192.168.0.1,8.8.8.8
ଲ୍ଲି SSID: CPE5G_5G165 Interface: wlan0 ୟ 1	MAC: 68:10:bc:bd:37:8a Mode: ap Channel: 165 <5825 MHz>

Under the Status settings you can see how your network is connected , you can also see the Local IP address assigned to each device for better management.

On the Slave unit you can see the Signal level of the bridge,





Cevice Model: AR9344-5G-LSD Up Time: 0d 1:45:1 System Clock: 2025/01/13 05:43:27	Memory: 48568kB/61952kB Genuine License: Yes
⊕ DHCP: Enable IP Address: 192.168.0.55 192.168.255.201 Gateway: 192.168.0.1	Status: Linked Netmask: 255.255.255.0 255.255.255.0 DNS Server: 192.168.0.1,8.8.8.8
SSID: CPE5G_5G165   Interface: wlan0   BSSID: 68:f0:bc:bd:37:8a   Tx Power: 23 dbm   Signal: -46 [-53, -47] dBm	MAC: 68:f0:bc:bd:37:ee Mode: station Channel: 165 <5825 MHz> Tx Rate: 130.0 MBit/s MCS 14 short GI Rx Rate: 144.4 MBit/s MCS 15 short GI
⑦ SSID: MY_WIFI Interface: wlan2 组0	MAC: 6a:f0:bc:bd:37:ee Mode: ap Channel: 165 <5825 MHz>



You can also Check on Salve connections , Run Tests and monitor performance



Wireless bridges work best with unobstructed line of sight.

If you are unable to get signals, log into each unit separately using a Laptop and check the settings,

If you need to default the units - Please hold the little button for 40 seconds on each unit and make sure you select the same ID for Slave and Master - remember to set 1 with position A and the other with B

For a complete check, power them both up in the same room and confirm connection before deploying in the field.