



# **OCTOPUS RADIOS BASIC SETUP FOR A POINT TO POINT LINK**

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## INTRODUCTION

The Octopus radios can be configured as Access Point (**Base Station**) and as Subscriber radio (**Client Station**) depending on the firmware version loaded to the Unit. In this section we'll explain the basic settings that need to be configured in the Octopus radios to build a point to point link between a **Base Station** and a **Client Station** unit.

For a point-to-point link the **Base Station** radios need to be configured as follow:

1. Configure “**Basic Wireless**” menu option settings as follow:

**WIRELESS**

**Wireless Network Settings**

Use this section to configure the wireless settings for your AP Bridge. Please note that changes made on this section may also need to be duplicated on your Wireless Client.

To protect your privacy you can configure wireless security features. This device supports three wireless security modes including: WEP, WPA-Personal, and WPA-Enterprise. WEP is the original wireless encryption standard. WPA provides a higher level of security. WPA-Personal does not require an authentication server. The WPA-Enterprise option requires an external RADIUS server.

**ENABLE**

**Enable Wireless Radio :**

**BASIC WIRELESS SETTINGS**

**Wireless Network Name :**  (Also called the SSID)

**Visibility Status :**  Visible  Invisible

**Auto Channel Select :**

**Region & Domain :**

**Channel :**

**Transmission Rate :**  (Mbit/s)

**802.11 Mode :**

**Super G™ Mode :**

**WIRELESS SECURITY MODE**

**Security Mode :**  None  WEP  WPA-Personal  WPA-Enterprise

2. Configure “**Advanced Wireless**” menu option settings as follow:

**ADVANCED WIRELESS**

If you are not familiar with these Advanced Wireless settings, please read the help section before attempting to modify these settings.

**Save Settings**      **Don't Save Settings**

**ADVANCED WIRELESS SETTINGS**

**Fragmentation Threshold :**  (256..65535)

**RTS Threshold :**  (1..65535)

**Beacon Period :**  (20..1000)

**DTIM Interval :**  (1..255)

**Propagation Distance :**  (0..100 Kilometer)

**802.11d Enable :**

**Transmit Power :**  (0..30 dBm)

**WDS Enable :**

3. Verify the “**Status Wireless**” menu option show the following status connection with the Client radio, right after you finish Client Station configuration, as follow:

**WIRELESS**

**Associated Wireless Client List**

Use this option to view the wireless clients that are connected to your wireless Access Point.

**NUMBER OF WIRELESS CLIENTS : 1**

MAC Address	IP Address	Mode	Rate	Signal(%)
00:80:48:52:C5:33	Unknown	11a	108	100



For a point-to-point link the **Client Station** radios need to be configured as follow:

1. Configure “**Basic Wireless**” menu option settings as follow:

**WIRELESS**

**Wireless Network Settings**

Use this section to configure the wireless settings for your D-Link Bridge. Please note that changes made on this section may also need to be duplicated on your Wireless Access Point.

To protect your privacy you can configure wireless security features. This device supports two wireless security modes including: WEP and WPA-Personal. WEP is the original wireless encryption standard. WPA provides a higher level of security. WPA-Personal does not require an authentication server.

**Save Settings**    **Don't Save Settings**

**ENABLE**

**Enable Wireless Radio :**

**BASIC WIRELESS SETTINGS**

**Wireless Mode :**  Infrastructure  Ad-Hoc

**Wireless Network Name :** OCTOPUS (Also called the SSID)

**Region & Domain:** 4 - USA

**Channel :** 5.745 GHz - CH 149

**Transmission Rate :** Best (automatic) (Mbit/s)

**802.11 Mode :** 802.11a only

**Super G™ Mode :** Disabled

**WIRELESS SECURITY MODE**

**Security Mode :**  None  WEP  WPA-Personal



2. Configure “**Advanced Wireless**” menu option settings as follow:

**ADVANCED WIRELESS**

If you are not familiar with these Advanced Wireless settings, please read the help section before attempting to modify these settings.

**Save Settings**   **Don't Save Settings**

**WIRELESS MAC CLONING**

**Cloning Mode :**    WLAN Card    Ethernet Client

**ADVANCED WIRELESS SETTINGS**

**Fragmentation Threshold :**  (256..65535)  
**RTS Threshold :**  (1..65535)  
**802.11d Enable :**   
**Transmit Power :**  ▼  
**Propagation Distance :**  (0..100 Kilometer)  
**Uplink Bandwidth Shaping :**  (1..65535kbps,0:Disable)  
**Downlink Bandwidth Shaping :**  (1..65535kbps,0:Disable)

3. Verify the “**Status Wireless**” menu option shows the following status connection with the Access Point radio:

**WIRELESS**

**Access Point List**

Use this option to view the list of Access Points around.

**NUMBER OF ACCESS POINTS : 1**

MAC Address	SSID	Channel	Mode	Privacy	Type	Signal(%)
00:1E:30:00:00:30	OCTOPUS	149	11a	None	AP	100