Universal Repeater Mode
O2Breeze or O2Wind
PLEASE READ THESE INSTRUCTIONS BEFORE CONFIGURING OR DEPLOYING YOUR O@BREEZE OR O2WIND HIGH SPEED UNIVERSAL WIRELESS REPEATER (S)

Thank you for purchasing a RadioLabs High Speed Universal Wireless Repeater. Using this device, you will be able to bridge LAN connections with wireless speeds up to/over 100 megabits/second (condition and distance dependent). The O2Breeze or O2Wind can act as a non-routing LAN extension or as a NAT-enabled gateway to link two locations via the IEEE 802.11N wireless protocol.

Connecting the Bullet High Speed Wireless Platform to your computer for configuration.

Connect a Category 5 Ethernet cable between your PC/MAC’s ethernet port and one of the four LAN ports of the O2Breeze or the O2Wind.

Before configuring your Repeater(s), you will need to disable your internal wireless card or Airport (if applicable) and set a static or “unchanging” IP address.

Windows

XP: Open Start Menu and select Control Panel Select Network Connections (if unavailable, select show “Classic view”)

Vista: Select Start Menu/Windows Logo > Network > Network and Sharing Center > Manage Network Connections

Windows 7: Select Start Menu/Windows Logo > Network > Network and Sharing Center > Change Adapter Settings

Once you can view your system’s network connections, right click on “Wireless Network Connection” and select “Disable”.

Macintosh OS X

Select the Airport Status Icon (upper right hand corner of screen) and select “Turn Airport Off”
When logging into the repeater to configure the unit, you will need to have a Static IP address on your PC/MAC’s Ethernet Adapter.

Windows

*XP: Open Start Menu and select Control Panel*
Select Network Connections and right click “Local Area Connection”

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Status</th>
<th>Device Name</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>1394 Connection</td>
<td>LAN or High-Speed Int...</td>
<td>Connected, Firewalled</td>
<td>1394 Net Adapter</td>
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<tr>
<td><strong>Local Area Connection</strong></td>
<td>LAN or High-Speed Int...</td>
<td>Connected, Firewalled</td>
<td>Broadcom 570X Gigabit L...</td>
<td></td>
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<tr>
<td>Wireless Network Connection</td>
<td>LAN or High-Speed Int...</td>
<td>Not connected, Firewalled</td>
<td>Intel(R) PRO/Wireless 22...</td>
<td></td>
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<tr>
<td>Wireless Network Connection 2</td>
<td>LAN or High-Speed Int...</td>
<td>Connected, Firewalled</td>
<td>(2D:121:EB):IEEE 802.11b...</td>
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</table>
### LAN or High-Speed Internet

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Status</th>
<th>Device Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>L394 Connection</td>
<td>LAN or High-Speed Internet</td>
<td>Connected, Firewall enabled</td>
<td>L394 Net Adapter</td>
</tr>
<tr>
<td>Local Area Connection</td>
<td>LAN or High-Speed Internet</td>
<td>Connected, Firewall enabled</td>
<td>Broadcom 570x Gigabit Ethernet Controller</td>
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<tr>
<td>Wireless Network</td>
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<td>Not connected, Firewall enabled</td>
<td>Intel(R) PRO/Wireless 2200AG Network Connection Card</td>
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<tr>
<td>Wireless Network</td>
<td>LAN or High-Speed Internet</td>
<td>Connected, Firewall enabled</td>
<td>(ZD1213)IEEE 802.11 b...</td>
</tr>
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</table>

- **Network Tasks**
  - Create a new connection
  - Setup a home or small office network
  - Change Windows Firewall settings
  - Disable this network device
  - Repair this connection
  - Rename this connection
  - New status of this connection
  - Change settings of this connection

- **Other Places**
  - Control Panel
  - My Network Places
  - My Documents
  - My Computer
Select Internet Protocol (TCP/IP) or Internet Protocol (IPv4) and click Properties.
Select “Use The Following IP Address” and Enter 192.168.1.10 into the IP Address field and 255.255.255.0 into the subnet mask field.

Select “OK” and select “Close” on the Local Area Connection properties window.

**Vista:** Start Menu/Windows Logo > Control Panel > Network and Sharing Center > Manage Network Connections > right click “Local Area Connection” and follow instructions from page 5.

**Windows 7:** Start Menu/Windows Logo > Control Panel > Network and Sharing Center > Change Adapter Settings > right click “Local Area Connection and follow instructions from page 5.

Once you have configured your Repeater(s), you will need to follow these steps again and select “Obtain an IP address automatically.”
Your PC/MAC is now ready to configure the O2Beeze or the O2Wind High Speed Universal Wireless Repeater.

Open a web browser (Internet Explorer, Mozilla Firefox, Safari, etc.) and enter 192.168.1.1 into the address bar and hit “Enter”.

Select "Wireless" > "Basic Settings"

"Mode" will be “AP”.
"SSID" will be the name that the repeater will broadcast for your wireless devices to connect to.
Check the "Enable Universal Repeater Mode" box.
"SSID of Extended Interface" will be the SSID of the originating signal that you want to connect to. You can find this by going to "Wireless" > "Site Survey" select "Site Survey" button.
"Apply Changes" > "OK"
This will show a list of available networks within range of your O2Breeze/O2Wind. Generally, a signal at 30% and above will allow a stable connection. If you are unable to pick up any signal or if you're unable to keep a stable connection, try repositioning the unit with the least amount of obstructions between the wifi source and your O2 unit.

Select "Wireless" > "Security"

This is where you need to match the security encryption and password exactly with the security encryption and password of the originating signal you are connecting to.

"Pre-Shared Format" > Passphrase

"Pre-Shared Key" > Password
Next select "TCP/IP Settings" > "LAN Interface".

"IP Address" will need to be changed to "192.168.1.2".
"DHCP" needs to be changed to "Disabled"
"Apply Changes" > "OK"

*Your O2Breeze or O2Wind is now acting as a client and access point simultaneously. You can connect wirelessly to the repeated signal or connect via the Ethernet cable to access the internet.*

Wireless speeds are affected by many different environmental variables, including line-of-sight, frequency interference and ambient radio noise. The RadioLabs High Speed Universal Wireless Repeater supports speeds up to 100 megabits/second (true throughput), however, due to natural variance in signal and the automatic speed selection, this may vary.