



Finding the best channel for jaganet

July 2015 v.1.1

We provide a pre-configured router for the JAGA device. The router is configured to auto-select the least congested WiFi channel available in your environment. However, if you are having problems with the selected channel, you can troubleshoot by manually selecting a different channel.

Use tools such as iStumbler and WiFinspect to assess network usage in your area.

You can download programs such as iStumbler and WiFinspect to determine open WiFi channels in your area. Below is an example of networks that iStumbler found in my area. You can see that jaganet is set at channel 3. When possible, you want to avoid being on the same channel as another network. In the example here, only jaganet is on channel 3, while several networks are sharing channel 11.

Secure	Protocol	Mode	Network Name	Level	Signal	Noise	Channel	Frequency	MAC Address	Vendor	Samples	Location
<input type="radio"/>	WPA2	802.11n	Network	jaganet	77%	13%	3	2422	14:35:8b:11:5e:bc	14-35-8B	10	Nowhere
<input type="radio"/>	WPA2	802.11n	Network	MHC	58%	13%	10	2457	00:27:22:46:6a:87	Ubiquiti ne...	6	Nowhere
<input type="radio"/>	WPA2	802.11g	Network	linksys	36%	13%	6	2437	00:18:39:d0:c9:7e	Cisco-linksys	4	Nowhere
<input type="radio"/>	WPA2	802.11n	Network	virginiaichishta's C	26%	13%	11	2462	ba:c7:5d:0c:0b:e0	BA-C7-5D	5	Nowhere
<input type="radio"/>	WPA	802.11g	Network	2WIRE171	25%	13%	6	2437	00:21:7c:e9:b7:49	Zwire	4	Nowhere
<input type="radio"/>	WPA2	802.11n	Network	Virginia Ichishta's	25%	13%	11	2462	b8:c7:5d:0c:0b:ed	B8-C7-5D	5	Nowhere
<input type="radio"/>	WPA	802.11g	Network	2WIRES29	24%	13%	5	2432	00:22:a4:62:b4:49	Zwire	5	Nowhere
<input type="radio"/>	WPA2	802.11n	Network	HOME-A782	24%	13%	11	2462	90:c7:92:2d:a7:80	90-C7-92	4	Nowhere
<input checked="" type="radio"/>	Open	802.11n	Network	xfinitywifi	23%	13%	6	2437	00:0d:67:75:bf:fd	Belair netw...	1	Nowhere
<input checked="" type="radio"/>	Open	802.11n	Network	xfinitywifi	23%	13%	11	2462	96:c7:92:2d:a7:80	96-C7-92	4	Nowhere
<input type="radio"/>	WPA2	802.11n	Network	Aquos3	20%	13%	1	2412	20:c9:d0:af:41:ae	20-C9-D0	1	Nowhere
<input checked="" type="radio"/>	Open	802.11n	Network	CableWiFi	20%	13%	6	2437	00:0d:67:75:bf:fe	Belair netw...	5	Nowhere
<input type="radio"/>	WPA2	802.11n	Network	home	20%	13%	11	2462	50:46:5d:02:66:90	50-46-5D	5	Nowhere

Changing to another channel:

1. If you want to switch **jaganet** to another channel, go to your web browser (e.g. Chrome, Firefox) and connect to <http://192.168.8.1>
2. On the main Medialink page, change “Wireless SSID” to “jaganet”, and “Password” to “squeak!1”. Click the “Apply” button, and you will see a popup message that says “Successful”.
3. Click on the “Advanced Settings” link, then click on “Wireless Settings”.
4. You will find the “Channel” setting here. We have it pre-configured to “Autoselect”. Change this setting to the channel number of your choice. For example, based on our iStumbler result above, we selected channel 3 in the example shown below.

