OMNI-WIFI™
Your partner in wireless networking

SweetSpot5™

Instruction Manual

SweetSpot5™ Inventory:
- SweetSpot5™ dual-band transmitter – broadcasts on 2.4ghz and 5.8ghz concurrently (includes 1 Gigabit Internet port and 1 Gigabit LAN port)
- Short Ethernet data cable
- Preconfiguration
- SweetSpot5™ infographic and invoice

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About this product

Thank you for purchasing the SweetSpot5™. This product is a self-contained, customized transmitter, receiver, and high-gain antenna all in one. It is designed to service any residence or area up to approximately 5,000 square feet.

Note: The default configuration, including the username and password, can be found on the last page of this manual.

General Positioning Considerations

The SweetSpot5™ should be mounted facing in the direction where most of the wireless users will be positioned, although significant signal strength does exist both behind and beside the unit due to the presence of a second special internal antenna.

Elevating the SweetSpot5™ to an upper edge of the highest room or attic in the home and pointing it diagonally toward the opposite lower edge of the room is usually the optimal positioning for most homes, as demonstrated in the diagram on the following page.

Where to Position the SweetSpot5™

The SweetSpot5™ is meant for indoor use. The primary restriction on positioning will usually be the length of the power cord and the length of the cables connecting the product to your broadband modem (or the nearest Ethernet socket), so take care to mount the SweetSpot5™ within cable reach of your electrical power source and broadband/Ethernet source. While the SweetSpot5™ can be aimed in any direction, it is important to orient the unit so that it faces most of the users.

Installation Considerations

Fluorescent lights in the space between the SweetSpot5™ and the clients will reduce the signal quality, and thereby reduce the effective distance that the SweetSpot5™ can operate. If you mount this product in a suspended ceiling, mount it away from fluorescent lights. Roaming cordless phone systems may also interfere with the performance of the SweetSpot5™ because they use the same frequencies. The channel your SweetSpot5™ uses is listed on the back of the product. Be sure to set your cordless phone to a different channel.

Most environments contain items that generate electromagnetic interference (EMI), such as refrigerators, microwaves, even vacuum cleaners, so place the SweetSpot5™ where it does not have to push its signal through the interference of these household appliances. For example, you will probably get better coverage results by mounting the unit on the floor above the refrigerator, rather than aiming the product *through* the refrigerator towards another room on the same floor.

Experimentation

If you are unsure about the best location for your SweetSpot5™, you can try it out simply by plugging it in and trying various locations.

You do not need to cable into your broadband or Ethernet source in order to find a suitable location for your SweetSpot5™. Simply place the unit in the location that you would like to test, and plug it into an electrical connection to power it up. Then walk around your house with a laptop or WiFi-enabled smart phone and observe the signal strength for your SweetSpot5™. Any signal reading at or above 2 bars (or ~40% of however your device graphically depicts WiFi signal strength) will give a fast connection speed. Having more bars usually indicates a *closer* connection, but it will not necessarily be the fastest connection. Some wireless computers that are far away from the signal or that have weaker client adapters (the computer's internal WiFi component) may also have lower speeds.

Connecting and Cabling

This product ships with (1) Ethernet cable . Once your modem is connected, you should see a new light appear on your modem to indicate the link. This light indicates that everything is working, and you should then be able to find and connect to your SweetSpot5™ on the list of available wireless networks, listed as "SweetSpot5" on the available wireless networks

> **NOTE: Some modems will need to be reset (via the reset button) to establish their first connection to the SweetSpot5™. This may be the case if you have previously used your cable modem to run a direct, wired connection to a computer.**

Managing via Wireless Connection

After successfully cabling your product, you should be able to find and connect to it on your computer or smart phone's list of available wireless connections. To pull up this list you can typically double click the wireless icon on your computer's toolbar, or tap the wireless icon on your smart phone menu. Find the connection named "SweetSpot5" and select it. Your wireless password **"omniwifi".** You should now have no difficulty pulling up a browser (Internet Explorer, Chrome, Firefox, Safari, etc.), or app, and connecting directly to the Internet on your wireless device.

The SweetSpot5™ is shipped plug-and-play, and we strongly advise against attempting to alter its configuration without the aid of a professional network engineer, preferably through our service call-line. If you do need to make changes, you can access the SweetSpot5™ management menu by typing its IP address, found on the label on the back of the unit at the top (usually, http://192.168.188.253), into your browser's URL box and hitting "ENTER".

Performance Testing

By now you've hopefully established a successful connection. We'd like to thank you again for choosing our product, and take the opportunity to quickly demonstrate to you the performance difference that our product offers when compared to other access points.

Many people assume that the performance of a given wireless access point is represented by the wireless icon on their computer or smart phone—where the wireless connection with the most bars is the best option. In reality, the graphic that represent the 'signal strength' of a wireless connection is often misleading. More bars does not always translate to more speed, or better quality.

The simple demonstration:

If you had an existing wireless access point before purchasing the SweetSpot5^{TM}, you can compare their performance by powering off the SweetSpot5^{TM}, and plugging in and reconnecting to the old access point in the same location as the SweetSpot5^{TM}. After connecting to the old access point, you can roam your house and run a speed test. We recommend http://testmy.net/, as flash-based speed test's are somewhat unreliable. Explore how far you can roam from your old access point before you lose your connection, or your speed significantly diminishes. Make a note of your results, then switch off the old access point and reconnect the SweetSpot5^{TM}. Run the same speed tests and compare your results. This time you should be able to walk considerably farther from the SweetSpot5^{TM}, even outside, before the signal disappears and you can no longer connect to the speed test.

In this comparison, our equipment should outperform or outdistance even other "strong" access points, which is why the signal strength indicator may be convenient, but not the best measure of connection quality or speed.

How it Works:

The OMNI-WiFi[TM] SweetSpot5[TM] has a modified receiving panel antenna that increases wireless client signal strength by a factor of 10. Since the wireless client generally has the weakest signal in the WiFi network, adding strength to its signal significantly increases the distance and speed of the overall wireless connection.

The OMNI-WiFi[TM] SweetSpot5[TM] has a special circuit to eliminate interference and to broadcast *only* the highest quality signal possible. The signal may not appear as strong as the signals from other access points, but the combination of the super sensitive radio, custom antenna, and special noise elimination circuit give it the *highest quality* signal. Therefore, the client computer will usually connect at a significantly greater distance away from the SweetSpot5[TM] than from any other access point, regardless of how many 'bars' other connections display. With other access points, up to one-half of the signal strength bars represent noise or a distorted signal.

FCC Compliance

Device meets current FCC Radio Frequency Exposure Guidelines under FCC Rules and Regulations Part 15.247 for IEEE 802.11 transmitter and receiver WiFi devices.

IMPORTANT:
FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm (about 8 inches) between radiator and your body. The antennas used for this transmitter should not be co-located or operating in conjunction with any other antenna or transmitter.

Appendix

Federal Communications Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does harmful interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by using one of the following methods:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on circuit different from that in which the receiver is connected.
- Contact the dealer or and experienced radio/TV technician for help

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Technical Support:

Email: engr@omni-wifi.com
Phone: 1- 800- 610- 6711 x 7

SPECIAL NOTE regarding interference and coverage: Aim the SweetSpot5^{TM} slightly downward instead of straight ahead to ensure coverage into dips and valleys. Avoid transmitting into or close to appliances, radios, cordless phones, baby monitors, wireless security systems or wireless cameras.

OMNI-WiFi Trademark
The SweetSpot5^{TM} is a service trademark of
OMNI-WiFi, LLC. OMNI-WiFi ^{TM} is a federally registered trademark.

Environmental Specifications:
Operating Temperature: -20 to +120 degrees F.
Operating Humidity: 5% to 80%, non-condensing.
Enclosure: NEMA-4 rated, to withstand direct water spray, and to withstand ice formation on enclosure.

Warranty and Exclusions:
90-day limited warranty.
Not guaranteed against water damage or electrical surge.
Not guaranteed against storm or lightning damage.

Shipping and Handling Damage Claims:
All shipping damage claims are the purchaser's responsibility. Inspect each shipment on delivery and report all damage immediately to the carrier. There may be time limits and inspection may be required, depend on the carrier.

WARNING:
OPENING the CASE or BREAKING the SEALS VOIDS the WARRANTY.

Wireless Password: **omniwifi**

Administrative Username: **root**	Administrative Password: **omniomni**
IP address: **192.168.188.253**	Channel: **9**

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