

As far As Wi-Fi can go

Coverage ■ Capacity ■ Noise Immunity

Welcome to Wavion

Welcome to Wavion WBS-5800/5000 Starter Kit. We have just released first to market beamforming base stations product family operating in the 5 GHz unlicensed band. It performs superbly in both Line-of-Sight (LOS) and Non-Line-of-Site (NLOS) conditions.

We want to give you an opportunity to test the WBS-5800/5000 base stations for yourself, in real life conditions.

This starter kit has been designed to get you started fast and see the results in your own environment.

I am looking forward to a long partnership with you.



Ulik Broida
VP Marketing &
Customer Services
Wavion Wireless Networks

Wavion Base Stations WBS-5800 & WBS-5000

Wavion's WBS-5800 & WBS-5000 are a product family of advanced wireless broadband base stations, which operates in the 5.8 GHz unlicensed band (WBS-5800) and in the 4.9 GHz-5.9 GHz band (WBS-5000). It features 3 base stations.

WBS-5800 Omni employs Wavion beamforming technology with 6 antennas and 6 radios to provide 360° omni directional coverage.

WBS-5800 Sector employs Wavion beamforming technology with an array of 3 antennas and 3 radios providing directional coverage of a 120° sector.

WBS-5000 Sector same as the WBS-5800 sector, but operates in the entire 4.9 GHz-5.9 GHz band.

The WBS-5800/5000 leverages Wavion's beamforming technology to provide superior connectivity in Line-of-Sight (LOS) and Non-Line-of-Sight (NLOS) conditions with extended range. These unmatched characteristics enable service providers, municipalities, and enterprises to deliver high quality and high capacity broadband wireless service with significantly fewer base stations at a much lower cost.

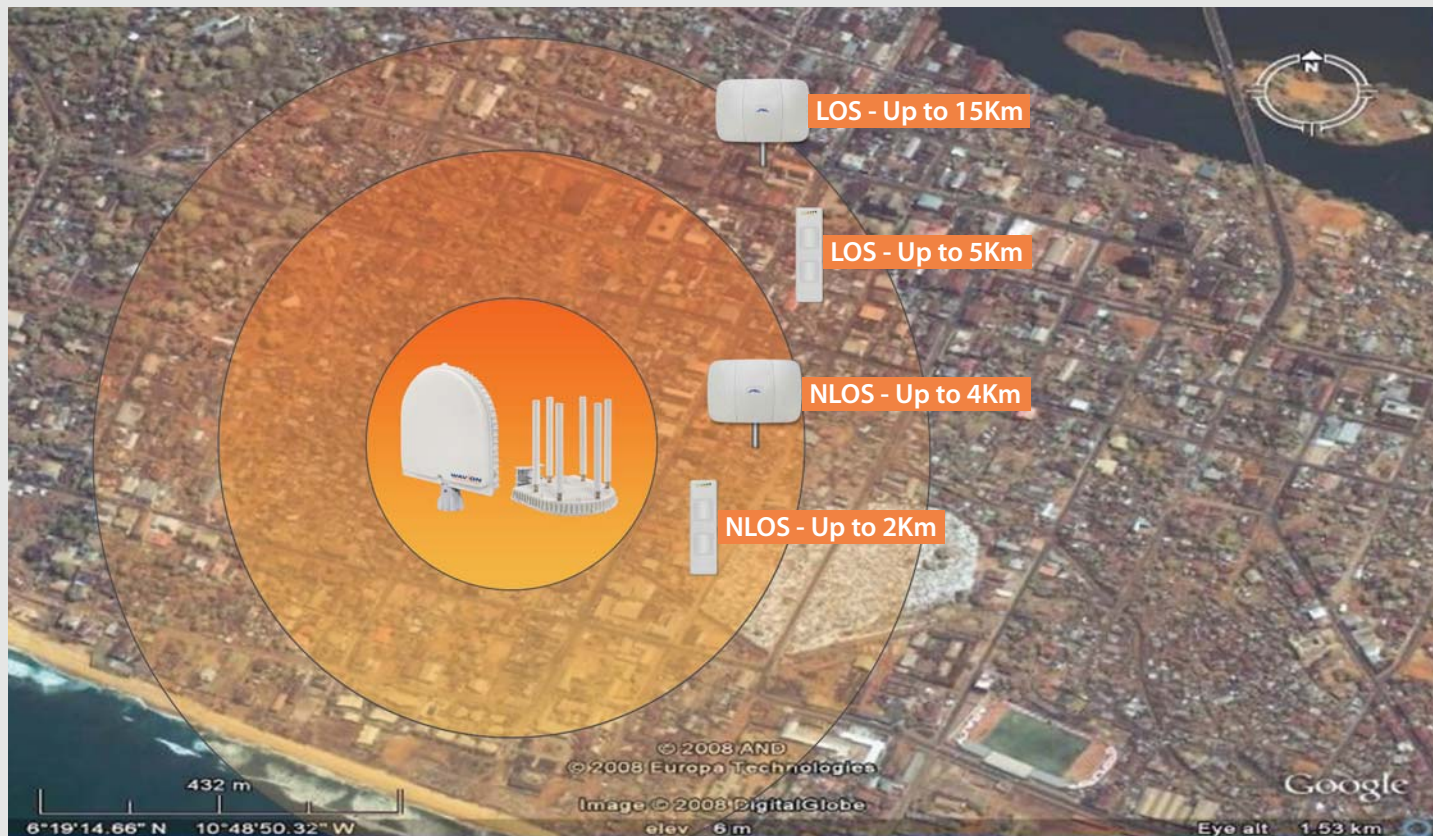
The WBS-5800/5000 is fully compliant with the 802.11a standard and can operate with any standard, off-the-shelf CPE. This allows you to select the right CPE for your needs and reduces your overall project costs without compromising performance.



WBS-5800 Omni



WBS-5800/WBS-5000 Sector



Expected coverage range with Wavion WBS-5800 Omni / WBS-5800 Sector / WBS-5000 Sector

Ubiquiti NS5/PS5 5 GHz CPEs

As part of WBS-5800/5000 of the shelf open standard CPEs approach, Wavion has certified Ubiquiti 5 GHz CPEs.

Nano Station 5 packed in a compact design combining a high gain 4 antenna system, advanced radio architecture, and a feature rich firmware technology allowing WISP to provide services at cost effective price.

Power Station 5 packed in together with a high gain panel antenna of 22dBi gain, advanced radio architecture, and a feature rich firmware technology allowing WISP to provide services at cost effective price.



Nano Station 5

Power Station 5

Starter Kit 5.8 GHz or 4.9-5.9 GHz Content

Product	Quantity	Description
WBS-5800-FCC	1	Wavion 5.8 GHz Spatially adaptive <ul style="list-style-type: none"> Multi-radio base station, with an array of 6 Omni antennas 5.8 GHz self backhaul PoE input (PoE injector to be ordered separately) Pole mount kit
WBS-5800-SCT-120-FCC	1	Wavion 5.8 GHz 120° Sector, Spatially adaptive <ul style="list-style-type: none"> Multi-radio base station, with an array of 3 sector antennas 5.8 GHz self backhaul PoE input (PoE injector to be ordered separately) Pole mount kit
<p>You may select 1 or 2 WBS-5000 Sector Base Stations WBS-5000-SCT-120-EU instead of the above models, with the following details:</p>		
WBS-5000-SCT-120-EU	1	Wavion 5 GHz 120° Sector, Spatially adaptive <ul style="list-style-type: none"> Operates in the 4.9-5.9 GHz band Multi-radio base station, with an array of 3 sector antennas 5 GHz self backhaul PoE input (PoE injector to be ordered separately) Pole mount kit
WPI-AC-55W-AF	2	Power over Ethernet Injector kit <ul style="list-style-type: none"> Input 90-264VAC Output 55VDC, max 55Watt Supports CAT-5e Ethernet Cable up to 100 meters (to be ordered separately) Indoor environment only: 0°–40° C Power Cable not included
CPE-5000-OD-NS5	2	Ubiquiti Nano Station 5 <ul style="list-style-type: none"> Outdoor 5.x GHz CPE with very easy installation and Layer 3 capabilities Basic router Intuitive LED radio status External SMA connector Up to 5Km range Package contents: CPE, 2 Plastic Straps, PoE Injector, AC adapter
CPE-5000-OD-PS5	2	Ubiquiti Power Station 5 <ul style="list-style-type: none"> Outdoor 5.x GHz CPE with very easy installation and Layer 3 capabilities High gain antenna (22dBi) Up to 15Km range Basic router Intuitive LED radio status Package contents: CPE, 2 Plastic Straps, PoE Injector, AC adapter
Technical Webinar	1	2 hours technical Webinar to be delivered when equipment has arrived at the partner's site. Webinar includes all aspects of installation, product, radio planning and more.
Free access to Wavion Self Service Portal	1	Log cases and get answers from our technical marketing team, and use the technical documentation database.

Terms and conditions:

- The starter kit is available through your local distributor
- The 5.8 GHz products are FCC certified

Typical applications

Using the WBS-5800/5000 base stations, with outdoor off-the-shelf CPEs enables operators, to create high quality broadband wireless service for business and residential customers, The WBS-5800 is also a perfect solution for municipalities and video surveillance networks, requiring high capacity and reliable access network. In specific cases where additional capacity is required, or the deployment strategy is cellular based 3 WBS-5800/5000 Sector Base Stations can be collocated to provide 360° coverage with triple capacity. The various applications the WBS-5800 family can be a perfect fit for, include:

- Business and residential connectivity
- Municipalities and Metro coverage
- Public safety (video over wireless)
- Backhaul solution for PtP and PtMP applications

The WBS-5800/5000 base stations are first to market with beam forming technology, enabling operators to deploy their 5 GHz clients in various conditions including real NLOS conditions, while reducing concerns of dead spots and limited coverage in their area of deployment.

For more information
please contact
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Wavion beamforming with NLOS coverage



WBS-5800/5000 Sector – Typical Application



WBS-5800 Omni – Typical Application