



Spotwave brings the outdoor signal inside – giving you clear voice call quality and high speed data rates

Product Benefits

- Cost-effective targeted coverage - only where you need it
- Everything you need for rapid deployment in an out-of-the-box solution
- Once installed it's maintenance free
- Field upgradeable Personality Module™ effectively future-proofs the system as network configurations change
- Choose from 25,000 or 50,000 sq ft systems

The Best Indoor Coverage System Just Got Better

Spotwave takes all the best features of the first generation SpotCell® family and now supports complex split and dual-band carrier networks and offers maximum flexibility through a software reconfigurable platform.

A Simple, Scalable Solution

The SpotCell® 2500Xe indoor wireless coverage system provides targeted cellular and PCS coverage for spaces ranging up to 50,000 sq ft per system with a simple architecture consisting of a Donor Unit (typically mounted outside), coaxial cable and indoor Coverage Unit(s). Additionally, the 2500Xe is designed so multiple systems can be deployed to create larger or more complex coverage footprints.

Supporting GSM or CDMA Networks

The SpotCell® 2500Xe provides enhanced coverage for both dual and dual/split bands in either GSM or CDMA networks, cost-effectively improving indoor coverage for voice and data services.

- Supports both contiguous and non-contiguous blocks of spectrum in the 1900 MHz PCS band
- Supports carriers operating both cellular and PCS networks including non-contiguous blocks in the PCS band

Unlike other products on the market, our carrier-specific programming ensures peak signal performance is attained and protects carrier networks from harmful interference.

Turn-Key and Powered by SpotCell® Technology

Spotwave has combined smart antenna technology and advanced adaptive algorithms in the 2500Xe - creating the only truly intelligent indoor wireless coverage system available on the market. This unique adaptive capability of SpotCell® products eliminates much of the planning, design and engineering effort associated with conventional coverage approaches. And once the system is installed, the product automatically adjusts performance according to network signals and isolation - no costly maintenance or adjustments are required.

Our systems come complete with everything required for rapid deployment including cable and mounting hardware.

Field Upgradeable Personality Module™

SpotCell® 2500Xe products can be reconfigured through the optional Personality Module™. This provides a method for reprogramming the unit based on network changes.



A single SpotCell® 2500Xe system is powerful enough to cover a typical office of 25,000 sq ft and can cover up to 50,000 sq ft by adding a second Coverage Unit.*

*Based on typical installations. Results can vary depending on building construction, floorplan and outside signal.

Powered by SpotCell® Technology

- Adapts real-time to changing network conditions - providing consistent coverage area and optimum performance
- Spotwave's built-in Auto Trac™ LEDs guide proper alignment to the base station
- Guaranteed to protect carrier signal integrity as the network evolves

Our System Includes

- Coverage Unit(s)
- Donor Unit
- RF Cable(s)
- Mounting Hardware
- Power Supply
- On-Board Diagnostics
- Quick Install Guide

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System Specifications and Performance

	Cellular	PCS
Frequency Band	UL: 824 - 849 MHz DL: 869 - 894 MHz	UL: 1850 - 1910 MHz DL: 1930 - 1990 MHz
Operator sub-bands	Operator Specific	
Primary sub-band	A+A'+A'' or B+B'	5, 10, 15 MHz
Secondary PCS (split-band) options	5 or 15 MHz	
Formats Supported	GSM, GPRS, EDGE, UMTS and IS-95, CDMA, 1XRTT, 1XEVD0	
Typical Coverage Area	25,000 sq ft (2,300 m ²) per Coverage Unit	
Open Coverage Area	50,000 sq ft (4,600 m ²) per Coverage Unit	
System Gain (fully adaptive, includes antenna)	UL: 0 to +85 dB maximum DL: 0 to +85 dB maximum	
System Stability Margin	> 10 dB (fully adaptive)	
Downlink Operating Range (receive isotropic power)	-95 to -45 dBm	
Maximum Input Level (receive isotropic power)	UL: -10 dBm maximum DL: -45 dBm maximum	
Output Level – EIRP (fully adaptive)	UL: +30 dBm maximum (composite) DL: +10 dBm maximum (composite)	
Third Order Intercept (EIRP, radiated)	UL: +53 dBm DL: +27 dBm	UL: +50 dBm DL: +27 dBm
Power Consumption	< 45 W	

Physical

	Donor Unit	Coverage Unit
Operating Temperature	-40° to 131°F (-40° to 55°C)	32° to 104°F (0° to 40°C)
Size (wxhxd)	14 x 12.5 x 3 in (36 x 31.5 x 8 cm)	6 x 9.25 x 1.75 in (15.5 x 23.5 x 4.75 cm)
Weight	12 lbs (5.5 kg)	2 lbs (1 kg)
RF Connectors	Type F: Coverage Port (weatherproof)	Type F: Donor Port Type F: Extension Antenna Port
RF Cable	Supports up to 165 ft (50m) RG-6 cable between Donor and Coverage Units	
Optional RF Cable	Plenum rated or RG-11 also available	
Power Supply	Universal power adapter (90 - 260 VAC, 47 -63 Hz)	

Installation

Donor Unit Alignment	No prior knowledge of base station location required Built-in alignment algorithm (LED indicator on Donor Unit)
Test Equipment	None required, easy-to-read LED indicators guide installation
User Controls	None, set-up and operation fully automatic

Indicators and Diagnostics

User Interface	Built-in LED coverage area display on Coverage Unit Built-in signal strength display on Donor Unit
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Coverage Extension

Optional Coverage Unit	Second Coverage Unit provides an additional 25,000 sq ft (2,300 m ²) with 50m RG-6 cable from primary Coverage Unit for a total of 50,000 sq ft (4,600 m ²) of coverage. Maximum coverage possible may be higher in more open spaces
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