

Dual Band Indoor Wireless Coverage System

Product Description

The SpotCell® 2500Xh indoor wireless coverage system provides targeted coverage for spaces ranging up to 100,000 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 2500Xh module enables cost effective scaling from 5,000 to 100,000 square feet systems, to create larger or more complex coverage footprints.

Supporting GSM or CDMA Networks

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

- Supports both contiguous and non-contiguous blocks of spectrum in the 1900 MHz 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 2500Xh - creating the only truly intelligent indoor wireless coverage system. This unique adaptive capability of SpotCell® products eliminates much of the planning, design and engineering effort associated with conventional coverage approaches. Once the system is installed, the product automatically adjusts performance according to network signal and isolation - no costly maintenance or adjustments are required. Systems come complete with everything required for rapid deployment including cable and heavy duty mounting hardware.

Field Upgradeable Personality Module™

SpotCell® 2500Xh products can be reconfigured through the optional Personality Module™. This provides a simple means of reprogramming the unit on site to accommodate network changes.

Coverage Options

The SpotCell® 2500Xh coverage can be expanded by adding CU's to provide between 25,000 to 100,000 square feet.



Fully integrated dual band 850 MHz and 1900 MHz In-building systems. Supports voice and data: CDMA/1X/EVDO/GSM/EDGE/HSPA.

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Technical Specifications

	Cellular	PCS
Frequency Band	B + B Only UL: 835 – 845, 846.5 – 849 MHz DL: 880 – 890, 835 – 845 MHz	UL: 1850 - 1910 MHz DL: 1930 - 1990 MHz
Operator sub-bands	Operator Specific	
Primary sub-band	B Lower, B Upper, B Prime or any Combination	5, 10, 15 MHz
Secondary PCS (split-band) options	5 or 15 MHz	
Formats Supported	GSM, GPRS, EDGE, UMTS, IS-95, CDMA, 1XRTT, 1xEVDO, HPSA and HSPA+	
Typical Coverage Area	25,000 sq ft (2,300 m2) per Coverage Unit (CU)	
Open Coverage Area	50,000 sq ft (4,600 m2) per Coverage Unit (CU)	
System Gain	UL: 0 to +85 dB maximum	DL: 0 to +85 dB maximum
System Stability Margin (fully adaptive)	> 10 dB	
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	< 50 W	(Single CO)

Physical

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 82 ft (25m) RG-6 cable between Donor and Coverage Units Supports up to 320 ft (100m) RG-11 cable between Donor and Coverage Units	
Optional RF Cable	Plenum rated also available	
Power Supply	Universal power adapter (90 - 260 VAC, 47 - 63 Hz)	

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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