## SpotCell® 2500Xe



## **Dual Band Indoor Wireless Coverage System**

### **Product Description**

The SpotCell 2500Xe Dual Band 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 2500Xe modules enables cost effective scaling from 5,000 to 100,000 square feet systems, to create larger or more complex coverage footprints.

### Supporting 850 and 1900MHz Networks

The SpotCell® 2500Xe provides enhanced coverage for dual band 850MHz and 1900MHz 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 2500Xe - 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® 2500Xe 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® 2500Xe can be expanded by adding CU's to provide between 5,000 to 100,000 square feet of coverage

### **Additional Frequency Bands**

Contact Spotwave for solutions supporting additional frequency bands



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





# **Dual Band Indoor Wireless Coverage System**

## **Technical Specifications**

	850 Band	1900 Band
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 or B or (A and B)	5, 10, 15,MHz
Secondary PCS (split-band) options		5, 15, 20 MHz
Formats Supported	GSM, GPRS, EDGE, UMTS, IS-95, CDMA, 1XRTT, 1XEVDO, HPSA, HSPA+, LTE	
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)



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

#### **Physical**

Filysical		
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

www.spotwave.com I Toll Free in North America: 1-866-704-9750 I info@spotwave.com I Telephone: 613-591-1662

