

LTE/ 4G Indoor Wireless Coverage System

Product Description

The SpotCell® 2500XI indoor wireless coverage system provides coverage for spaces ranging up to 100,000 sq ft per system with a simple modular architecture consisting of a Donor Unit (typically mounted outside), coaxial cable, and indoor Coverage Unit(s).

Supporting 4G/ LTE Networks

The SpotCell® 2500XI provides coverage enhancement for 700M/ LTE networks.

Turn-Key and Powered by SpotCell® Technology

As with the popular SC2500Xe, Spotwave has combined smart antenna technology and advanced adaptive algorithms in the 2500XI. 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.

Coverage Options

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



700 MHz In-building systems for LTE/ 4G Networks.

Specifications

Electrical

Frequency Band	UL: 777-787 MHz DL: 746-756 MHz	
Operator sub-bands	Phase 1. Upper C Band. Phase 2. Additional Bands	
Formats Supported	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 +70 dB maximum	DL: 0 to +70 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: +28 +/- 2dB maximum (composite)	DL: +5 +/- 2dB maximum (composite)
Third Order Intercept (EIRP, radiated)	UL: +53 dBm	DL: +27 dBm
Power Consumption	< 45 W	(Single CO)

Physical

	DU	CU
Operating Temperature	-40° to 131°F (-40° to 55°C)	32° to 104°F (0° to 40°C)
Size (w x h x d)	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 164 ft (50m) RG-11 cable between Donor and Coverage Unit Plenum rated also available	
Power Supply	Universal power adapter (90 - 260 VAC, 47 -63 Hz)	

Indicators and Diagnostics

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