



Our System Includes

- Coverage Unit
- Donor Unit
- RF Cables
- Quick Mounting Hardware
- Power Supply
- On-Board Diagnostics
- Quick Install Guide
- Monitoring Capability

Toll-Free in North America
1-866-704-9750

Telephone
1-613-591-1662

Email
info@spotwave.com

Web Site
www.spotwave.com

System Specifications and Performance

SpotCell® 163 iDEN	
Frequency Band	UL: 806 – 821 MHz DL: 851 – 866 MHz
Formats Supported	iDEN
Typical Coverage Area	Up to 25,000 ft ² (2,300 m ²)
Open Coverage Area	Up to 50,000 ft ² (4,700 m ²)
System Gain (fully adaptive)	UL: 0 to +90 dB maximum DL: 0 to +90 dB maximum
Downlink Operating Range (receive isotropic power)	-95 to -25 dBm; reduced coverage below -95 dBm
Maximum Input Level (receive isotropic power)	UL: -5 dBm maximum DL: -44 dBm maximum
Output Level – EIRP (fully adaptive)	UL: +30 dBm maximum DL: +7 dBm maximum
Third Order Intercept (radiated)	UL: +60 dBm EIRP DL: +33 dBm EIRP
Power Consumption	< 35 W

Physical

	Donor Unit	Coverage Unit
Operating Temperature	-40° to 55°C (-40° to 131°F)	0° to 40°C (32° to 104°F)
Size (wxhxd)	14 x 11 x 4 in. (35 x 28 x 10 cm)	9 x 7.5 x 2.5 in. (23 x 18.5 x 7 cm)
Weight	4 lb (2 kg)	2 lb (1 kg)
RF Connectors	Type F; weatherproof	Type F; MCX 50 Ohm coverage extension antenna port
RF Cable	RG 6 quad-shield 82 ft (25 m) supplied – system supports up to 164 ft (50 m)	
Optional RF Cable	Plenum Rated or RG 11 also available	
Power Supply	Universal power adapter (110 – 240 Vac)	

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 displays guide installation
User Controls	None, setup and operation fully automatic

Indicators and Diagnostics

User Interface	LCD display and LED on Coverage Unit and Donor Unit
Remote Access	Supports SpotCell® Viewer 2 and alarm notification

Coverage Extension Kit

SpotCell® 163 iDEN Extension	
Optional low cost extension	SpotCell® 163 iDEN Extension
Coverage Area	Up to 6,000 sq ft (550 m ²)
Antenna	800 MHz (Passive)
Cables	RG6 quad-shield 82 ft (25 m) supplied with F Type connectors 4 inch cable with MCX (right angle) and F Type connectors





Our System Includes

- 2 Coverage Unit
- Donor Unit
- Intelligent Hub
- RF Cables
- Quick Mounting Hardware
- Power Supply
- On-Board Diagnostics
- Quick Install Guide
- Monitoring Capability

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System Specifications and Performance

SpotCell® 263 iDEN	
Frequency Band	UL: 806 – 821 MHz DL: 851 – 866 MHz
Formats Supported	iDEN
Typical Coverage Area	Up to 50,000 ft ² (4,600 m ²)
Open Coverage Area	Up to 80,000 ft ² (7,400 m ²)
System Gain (fully adaptive)	UL: 0 to +90 dB maximum DL: 0 to +90 dB maximum
Downlink Operating Range (receive isotropic power)	-95 to -25 dBm; reduced coverage below -95 dBm
Maximum Input Level (receive isotropic power)	UL: -5 dBm maximum DL: -44 dBm maximum
Output Level – EIRP (fully adaptive)	UL: +30 dBm maximum DL: +7 dBm maximum
Third Order Intercept (radiated)	UL: +60 dBm EIRP DL: +33 dBm EIRP
Power Consumption	< 35 W

Physical

	Donor Unit	Coverage Unit	Hub
Operating Temperature	-40° to 55°C (-40° to 131°F)	0° to 40°C (32° to 104°F)	0° to 40°C (32° to 104°F)
Size (wxhxd)	14 x 11 x 4 in. (35 x 28 x 10 cm)	9 x 7.5 x 2.5 in. (23 x 18.5 x 7 cm)	4 x 2 x 1 in. (10 x 5 x 2.5 cm)
Weight	4 lb (2 kg)	2 lb (1 kg)	1 lb (0.5 kg)
RF Connectors	Type F; weatherproof	Type F; MCX 50 Ohm coverage extension port	Type F
RF Cable	1 - 10m of RG11 Quad shielded 2 - 25m lengths of RG11 Quad shielded 2 - 2m lengths of RG11 Quad shielded		
Optional RF Cable	Plenum Rated Available		
Power Supply	Universal power adapter (110 – 240 Vac)		

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 displays guide installation
User Controls	None, setup and operation fully automatic

Indicators and Diagnostics

User Interface	LCD display and LED on Coverage and Unit Donor Unit
Remote Access	Supports SpotCell® Viewer 2 and alarm notification

Coverage Extension Kit

Optional low cost extension	SpotCell® 263 iDEN Extension
Coverage Area	Up to 6,000 sq ft (550 m ²)
Antenna	800 MHz (Passive)
Cables	RG6 quad-shield 82 ft (25 m) supplied with F Type connectors 4 inch cable with MCX (right angle) and F Type connectors

