

# SpectraGuard Sensor™ SS-300-AT Technical Specifications

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## 1 Product Overview

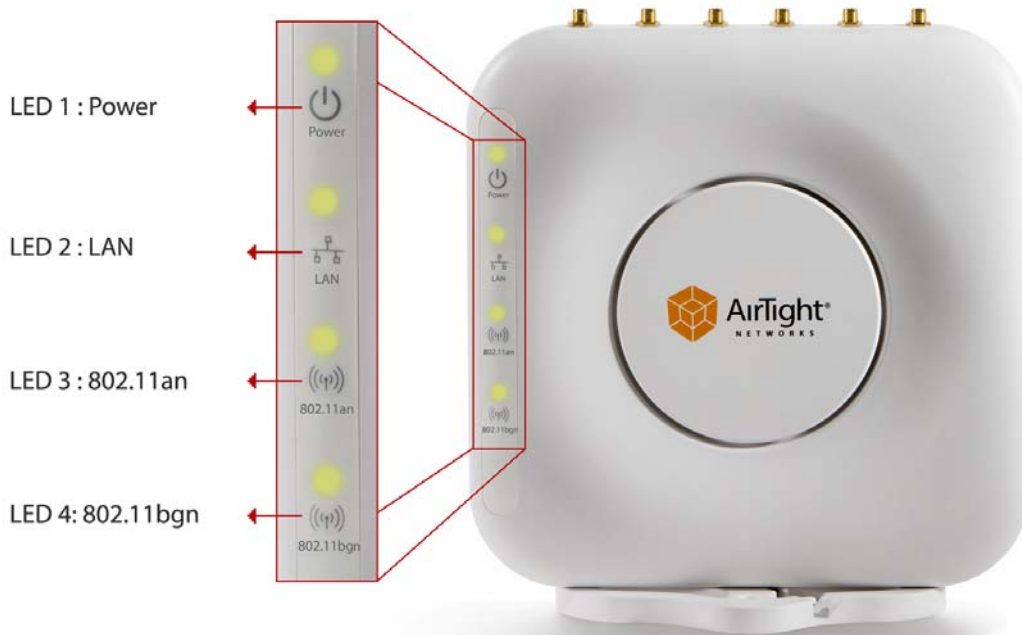
ITEM	DESCRIPTION
Product Name	SpectraGuard Sensor™
Model Number	SS-300-AT
Power Supply	802.3af Class 0 Power Over Ethernet Nominal input voltage 48V DC

## 2 Appearance

### 2.1 SpectraGuard Sensor™ SS-300-AT – Front View



### 2.1.1 LEDs on the front panel



LED1 OR POWER	LED2 OR LAN	LED3 OR 80211an	LED4 OR 802.11bgn	DESCRIPTION
Solid Green	Solid Green	Solid Green	Solid Green	The Sensor is receiving power and is working normally. The Sensor is also connected to the SpectraGuard Enterprise® Server.
Solid Green	Solid Green	Solid Green	Fast Blink	The Sensor is performing Troubleshooting on 802.11b/g/n.
Solid Green	Solid Green	Solid Green	Slow Blink	The Sensor is performing Intrusion Prevention on 802.11b/g/n.
Solid Green	Solid Green	Fast Blink	Solid Green	The Sensor is performing Troubleshooting on 802.11a/n.
Solid Green	Solid Green	Fast Blink	Fast Blink	The Sensor is performing Troubleshooting on 802.11a/n and 802.11b/g/n.
Solid Green	Solid Green	Fast Blink	Slow Blink	The Sensor is performing Troubleshooting on 802.11a and Intrusion Prevention on 802.11b/g/n.
Solid Green	Solid Green	Slow Blink	Solid Green	The Sensor is performing Intrusion Prevention on 802.11a/n.
Solid Green	Solid Green	Slow Blink	Fast Blink	The Sensor is performing Intrusion Prevention on 802.11a and Troubleshooting on 802.11b/g/n.
Solid Green	Solid Green	Slow Blink	Slow Blink	The Sensor is performing Intrusion Prevention

LED1 OR POWER	LED2 OR LAN	LED3 OR 802.11a/n	LED4 OR 802.11b/g/n	DESCRIPTION
				on 802.11a/n and 802.11b/g/n.
Solid Green	Slow Blink	Slow Blink	Slow Blink	The Sensor upgrade is in progress.
Solid Orange	Solid Green	Any	Any	The Sensor is unable to get Ethernet link.
Solid Orange	Fast Blink	Any	Any	The Sensor did not receive a valid IP address via the DHCP.
Solid Orange	Slow Blink	Any	Any	The Sensor is unable to connect to the SpectraGuard Enterprise® Server.
Solid Orange	Any	Solid Green	Any	There is an error on 802.11a/b/g/n interfaces.
Solid Orange	Any	Any	Solid Green	The Sensor is experiencing a software error.
Off	Off	Off	Off	The Sensor is not powered on or it is in the process of starting up.

## 2.2 SpectraGuard Sensor™ - Side view



### 2.2.1 Ports on the side panel

PORT	DESCRIPTION	CONNECTOR TYPE	SPEED/PROTOCOL
Reset	Allows resetting of SpectraGuard Sensor™ to factory settings.	Pin-hole push-button	Hold down and power cycle the Sensor to reset
Console	Enables a serial connection to establish terminal sessions. Used for launching Config Shell sessions. <b>Note:</b> If the user uses SS-300-AT-C-01 and SS-300-AT-C-05, then the user needs to use the proprietary console cable provided by Airtight Networks. If the user uses SS-300-AT-C-10, then the user needs to use Cisco like console cable.	RJ-45	RS 232 Serial Bits per second: 115200 Data Bits: 8 Parity: None Stop Bits: 1 Flow Control: None

## 2.3 SpectraGuard Sensor™ - Rear view



### 2.3.1 Ports on the rear panel

PORT	DESCRIPTION	CONNECTOR TYPE	SPEED/PROTOCOL
Ethernet	This enables the device to be connected to the wired LAN through a switch or a hub. This connection allows the SpectraGuard Sensor to communicate with the SpectraGuard Enterprise® Server.  This port also provides the power for the device using 802.3af standard.	RJ-45	10/100/1000 Mbps Ethernet Power over Ethernet

## 3 Mounting Options

### 3.1 Desktop

The sensor can be placed on the desktop. The desktop mounting kit provided with standard packaging.

### 3.2 Ceiling Mount

The sensor can be mounted on the ceiling tiles. The ceiling mounting kit provided with standard packaging as well.

## 4 Specifications and Standards

### 4.1 Physical

Dimensions: 200 x 200 x 25 mm

### 4.2 Electrical

#### Power requirements

POE nominal input voltages: 48V

Power consumption under 802.3af Class 0 PD definition (Power levels at input of PD 0.44W to 12.95W)

### 4.3 RF, Electromagnetic and Safety Certification

The SS-300-AT is certified in the following countries:

COUNTRY	RF AND ELECTROMAGNETIC CERTIFICATION
USA	FCC certification
Canada	IC certification
Europe	CE certification The following countries are covered under Europe certification: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Netherlands, Portugal, Spain, Sweden, UK, Switzerland, Norway, Iceland, Poland, The Czech Republic, Hungary, Estonia, Latvia, Lithuania, Malta, Cyprus, Slovakia, Slovenia.

COUNTRY	SAFETY CERTIFICATION
USA	UL, UL2043
Canada	CUL
International	CB (based on IEC standards)

### 4.4 Environmental

The SS-300-AT complies with the following standards:

Transportation Environment	ETS 300 019-2-2 Class 2.3 Public Transportation
Storage Environment Shock:	IEC 68-2-29
Drop	IEC 68-2-32
Temperature	Operation (0~40°C), storage (-25~75°C) Humidity Max: 95% non-condensing

## 5 Wireless Specifications

### 5.1 802.11a/n Wireless Radio

Radio	Complies with IEEE 802.11a & 802.11n (draft 2.0)		
Frequency Band	Scanning	Transmission	
	All regions	USA & Canada (FCC/IC)	Europe (ETSI)
	4.92 ~ 5.08GHz 5.15 ~ 5.25GHz 5.25 ~ 5.35GHz 5.47 ~ 5.725GHz 5.725 ~ 5.825GHz	5.15 ~ 5.25GHz 5.25 ~ 5.35GHz 5.725 ~ 5.825GHz	5.15 ~ 5.25GHz 5.25 ~ 5.35GHz 5.47 ~ 5.725GHz
Dynamic Channel Control	DFS and DFS2		
Modulation Type	OFDM, MCS0-15		
Antenna	Integrated Antenna, 3dBi External Antenna – Not operational		

### 5.2 802.11b/g/n Wireless Radio

Radio	Complies with IEEE 802.11a & 802.11n (draft 2.0)		
Frequency Band	Scanning	Transmission	
	All regions	USA & Canada (FCC/IC)	Europe (ETSI)
	2400 ~ 2483.5Mhz	2400 ~ 2473.5Mhz	2400 ~ 2483.5Mhz
Dynamic Channel Control	DFS and DFS2		
Modulation Type	DSSS, OFDM, MCS0-15		
Antenna	Integrated Antenna, 3dBi External Antenna – Not operational		