SpectraGuard Sensor™
SS-300-AT-C-50
Technical Specifications
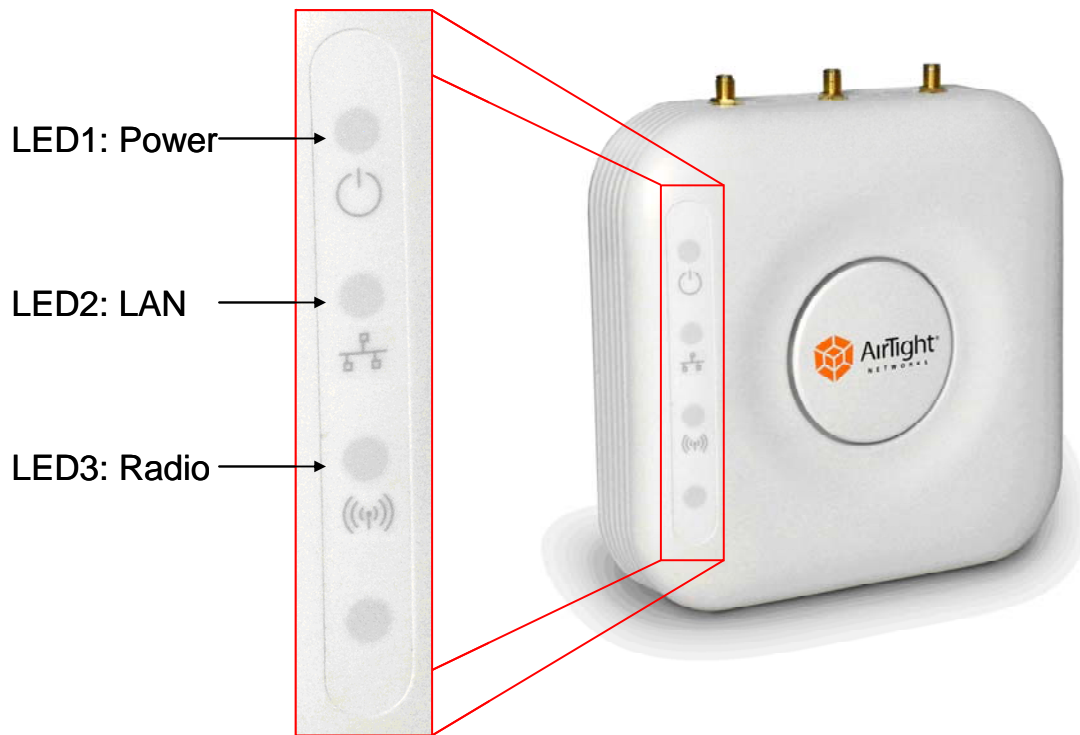
1   Product Overview

ITEM	DESCRIPTION
Product Name	SpectraGuard Sensor™
Model Number	SS-300-AT-C-50
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

4Gon   www.4Gon.co.uk   info@4gon.co.uk   Tel: +44 (0)1245 808295   Fax: +44 (0)1245 808299

2.1.1 LEDs on the front panel

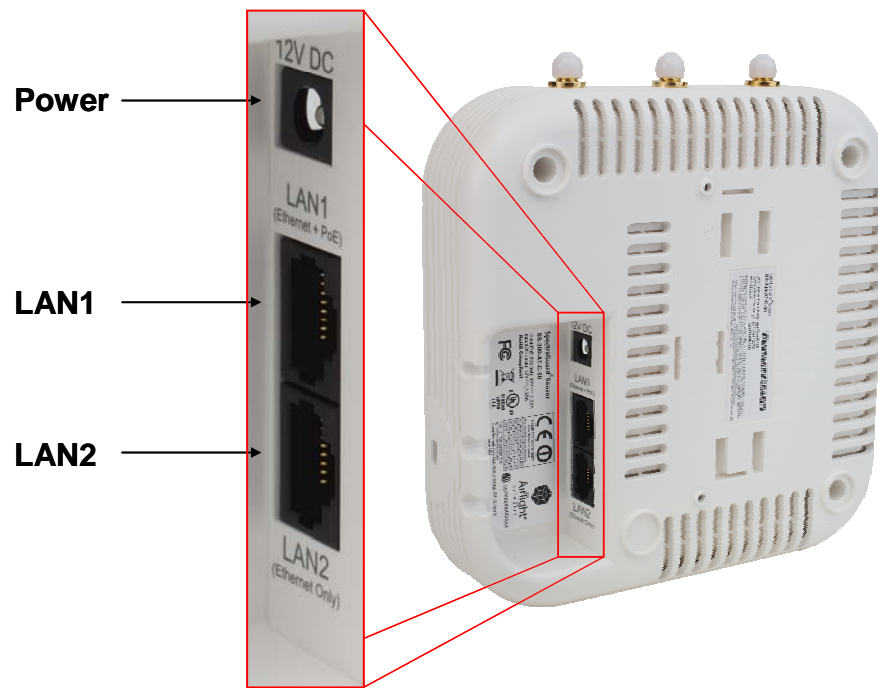| LED1 OR POWER	LED2 OR LAN	LED3 OR Radio	DESCRIPTION
Solid Green	Solid Green	Solid Green	The Sensor is receiving power and is working normally. The Sensor is also connected to the SpectraGuard Enterprise® Server.
Solid Green	Solid Green	Fast Blink	The Sensor is performing Troubleshooting.
Solid Green	Solid Green	Slow Blink	The Sensor is performing Intrusion Prevention.
Solid Green	Slow Blink	Slow Blink	The Sensor upgrade is in progress.
Solid Orange	Solid Green	Any	The Sensor is unable to get Ethernet link.
Solid Orange	Fast Blink	Any	The Sensor did not receive a valid IP address via the DHCP.
Solid Orange	Slow Blink	Any	The Sensor is unable to connect to the SpectraGuard Enterprise® Server.
Solid Orange	Any	Solid Green	There is an error on radio interface.
Solid Orange	Any	Any	The Sensor is experiencing a software error.
Off	Off	Off	The Sensor is not powered on or it is in the process of starting up.

2.2   SpectraGuard Sensor™ - Side view
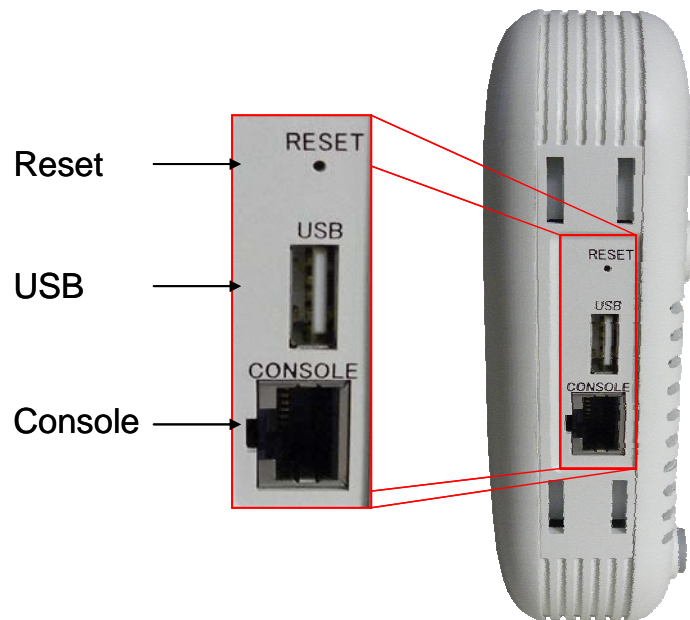
2.2.1   Ports on the side panel

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
USB	Not In Use	Not in Use	Not in Use
Console	Enables a serial connection to establish terminal sessions. Used for launching Config Shell sessions.	RJ-45	RS 232 Serial Bits per second: 115200 Data Bits: 8 Parity: None Stop Bits: 1 Flow Control: None

4Gon   www.4Gon.co.uk   info@4gon.co.uk   Tel: +44 (0)1245 808295   Fax: +44 (0)1245 808299

2.3 SpectraGuard Sensor™ - Rear view

2.3.1 Ports on the rear panel

PORT	DESCRIPTION	CONNECTOR TYPE	SPEED/PROTOCOL
Power	This is a 12V DC inout jack that can be used to power the device.	3.5mm barrel	Not Applicable
LAN1	This Ethernet port 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 802.03af Class 0 Power over Ethernet
LAN2	Not in use	Not in use	Not in use

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: 150 x 150 x 45 mm

4.2 Electrical

Power requirements

POE nominal input voltages: 48V

Power consumption under 802.3af Class 0 PD definition

Steady state power draw

Receive mode – 6.69W

Transmit mode – 8.92W

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.
Japan	NCC

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:

Temperature	Operation (0~40℃), storage (-25~75℃)
	Humidity Max: 95% non-condensing

4Gon www.4Gon.co.uk info@4gon.co.uk Tel: +44 (0)1245 808295 Fax: +44 (0)1245 808299

5   Wireless Specifications

5.1   Operation in 5GHz Band

Radio	Complies with IEEE 802.11a & 802.11n (draft 2.0)	
Frequency Band	Scanning	Transmission
	5.15 ~ 5.25GHz 5.25 ~ 5.35GHz 5.725 ~ 5.850GHz	5.15 ~ 5.25GHz 5.25 ~ 5.35GHz 5.725 ~ 5.850GHz
Dynamic Channel Control	DFS and DFS2	
Modulation Type	OFDM, MCS0-15	
Antenna	Integrated Antenna, 3dBi External Connectors 3x RP-SNA Software switch	

5.2   Operation in 2.4 GHz Band

Radio	Complies with IEEE 802.11a & 802.11n (draft 2.0)	
Frequency Band	Scanning	Transmission
	2400 ~ 2483.5Mhz	2400 ~ 2473.5Mhz
Dynamic Channel Control	DFS and DFS2	
Modulation Type	DSSS, OFDM, MCS0-15	
Antenna	Integrated Antenna, 3dBi External Connectors 3x RP-SNA Software switch	

4Gon www.4Gon.co.uk info@4gon.co.uk Tel: +44 (0)1245 808295 Fax: +44 (0)1245 808299