SS450

Site Controller

Specification Data

Job Name	
Type	
Catalog #	
Comments	

Product Overview

The SS450 site controller serves as the heart of your SimplySNAP solution. This network edge appliance provides quick browser-based access and local control of smaller systems with hundreds of devices.

Each SimplySNAP system includes a variety of Synapse-enabled devices that communicate with each other and the SS450 to form a local mesh network. The SS450 monitors, controls, and automates critical devices to save energy across different types of systems.

For managing larger sites or multiple locations, SimplySNAP cloud applications[1] are available to consolidate multiple site controllers into a single user interface for integrated management across installations with thousands of devices.

Features

- Multiple Zones, Behaviors, Events, and Schedules
- Built in Wi-Fi for local wireless access
- Ethernet port and cellular for network connectivity
- AES 128-bit encryption
- Optional Cloud and Remote Access services available[1]
- BMS and other system integration options
- Energy saving features to help meet regulations and qualify for rebates
- Energy management cloud applications[1] gather data from site controllers to generate energy reports about your facility and equipment

Product #	Description
SS450-002	WiFi and Verizon 4G LTE enabled, wall mount bracket; 4 Antennas

Dimensions	6.8" L x 4.6" W x 1.4" H (173mm L x 117mm W x 36mm H) without antennas
Operating Environment[2]	-40°C to +70°C Indoor Use Only
Mounting	DIN rail or Wall Mounted
Input Power[2]	12-24VDC (via Barrel Connector or Terminal Block Connector) Includes 100-240VAC, 15W AC adapter
Cellular	Verizon 4G LTE
Wi-Fi	802.11 b/g/n
Radio	SNAP 2.4 GHz; 802.15.4 +20 dBm Transmit Power -105 dBm Receive Sensitivity
Certifications	DLC, FCC, IC, cULus
Warranty[3]	5 Years

1. Cloud access and other applications sold separately, contact sales for details.

2. Included AC/DC supply is rated for indoor use only (0- 40°C). For outdoor use we recommend the Synapse Central Base Station - model CBSSW-450-002.

3. See www.synapsewireless.com/warranty for warranty terms

SimplySNAP Site Controller

Included with the SS450:

- 4 Antennas - 2 cellular antennas, 1 SNAP antenna, 1 WiFi antenna
- Ethernet port for local network connection
- Wall mount bracket
- 1 Power Supply
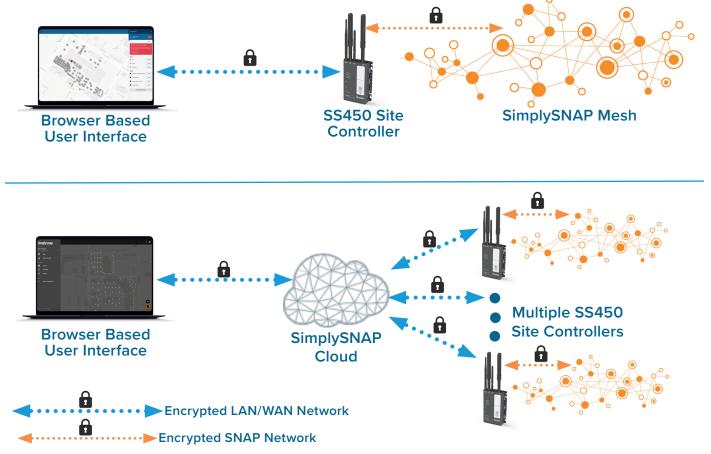- Terminal Block Connector (for alternate power connection)
- Quick Install Guide

Outdoor Site Controller option:

Part #	Description
CBSSW-450-002	Central Base Station SS450-based Model with 5-button switch and NEMA 4X enclosure

Supported Synapse Devices:

- Embedded Lighting Controllers
- External Lighting Controllers
- Wireless Sensors - Photocell, Motion, and Environmental
- Wireless Network Repeaters
- Hardware interface devices for control of HVAC systems and other equipment
- Sensor interface devices for measurement from 4-20mA Sensors

System Diagrams:

Browser Based User Interface   **SS450 Site Controller**   **SimplySNAP Mesh**

Browser Based User Interface   **SimplySNAP Cloud**   **Multiple SS450 Site Controllers**

→ **Encrypted LAN/WAN Network**

→ **Encrypted SNAP Network**

SimplySNAP Site Controller

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