

smartPORTAL™

SLS Mission Statement: Leverage RFID Technology to Present Actionable Data to Highly Engaged End Users

Product Overview

For organizations looking to harness the efficiency and power of RFID technology, the SLS RFID smartPORTAL™ combines the performance of Wave® Antenna Technology, lightweight strength of durable aluminum extrusion construction and unmatched ease of installation to deliver the industry's leading industrial data capture solution.

Key Features

The Wave® Antenna embodies a radical concept in RFID antenna design. Unlike a patch antenna that radiates a single beam in a given direction, the antenna is designed to uniformly illuminate a volume of space. When installed in pairs, the antennas complement each other and provide spatial direction of arrival and polarization diversities. The Wave® Antennas are unique in their ability to collect all three tag orientations within a user defined space up to a 10'x10'x10' zone.

All smartPORTAL™ base and optional GPIO features are powered simply through a single Power over Ethernet (PoE) connection (no AC power connections required).

Standard Configuration: 8' Safety Yellow

Options:

- Two-color Stack Light with Audible for operational status
- Photo Eye Connection Enabling "System On/Off" to Reduce Unnecessary Network Traffic
- Protective Equipment (Bollards & Angle Iron)
- Custom Sizes, Colors, and Configurable Artwork

Available Services:

- Consulting
- Project Management
- Installation
- Ongoing Maintenance



SLS *smartPORTAL™*

A-Panel
(Antenna
Core +
Reader)

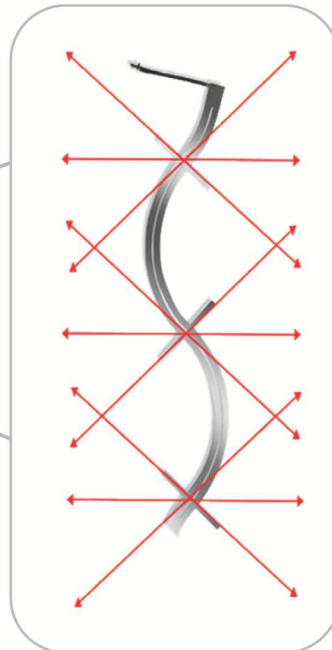
The SLS RFID smartPORTAL™ consists of one A-Panel and one B-Panel

B-Panel
(Antenna
Core only)



Impinj R420 Reader

The RFID reader supplies power to the antenna cores in both A & B Panels. Only one reader is necessary between the two panels—the panel with the reader embedded is labelled as the A-Panel. The A-Panel is connected to the B-Panel via RGB cables which allows the Reader to control activity in both A & B Panels.



Wave® Antenna Core



SLS *smartGPIO™*



SLS smartGPIO™ Photo Eye

The Photoelectric sensor serves as a “start” and “stop” trigger for the smartPORTAL™. It is aimed at a section of reflective tape that is applied to a dock door.

When the sensor is aligned with the tape on the “closed” dock door the antennas will be inactive in order to reduce unnecessary network traffic. When the door is open the beam will no longer be aligned with the reflective tape and this will signal the smartPORTAL™ to begin reading RFID tags.



SLS smartGPIO™ Audible Stack Light

The Audible Stack Light serves as an indicator of activity which works in conjunction with the photoelectric sensor.

Red = Inventory Inactive / Standby Mode

Green = Inventory Active Mode

Red + Green + Audible = System Alert Mode (contact SLS support)

Red + Green Pulse = License Key Error / Network Failure

No lights or Audible = No Power (check power connection)

The audible can be configured to release a buzz notification to either confirm or deny shipment/receipt accuracy. The amplitude of sound can be adjusted via mechanically turning the top of the stack light either clockwise (*decreasing*) or counterclockwise (*increasing*).

All smartPORTAL™ base and GPIO features are powered simply through a single Power over Ethernet (PoE) connection (no AC power connections required).



Specifications



Dimensions: 97.0" x 15.0" x 4"

Weight: 48lbs (per panel)

Temperature Range: -4°F to 140°F (-20°C to 60°C)

Frequency Range (North America): 902-928 MHz

User Defined Zone Coverage Area: 2'x2'x2' to 10'x10'x10'

Gain: 5.5 dBi

Impedance: 50 Ohms

Polarization: Multi-Linear

Maximum Input Power: 10 Watts

H-Plane Beam Width: 360 Degrees

E-Plane Beam Width: 360 Degrees

Connector: TNC Reverse Polarity

Optional Cables: As Required

Audible Intensity: 80 to 92dB at 1.1 meter (3.3ft)

Audible Oscillation Frequency: 2.1 kHz

Audible Current: 25mA max

