

# Spintly Mesh IO

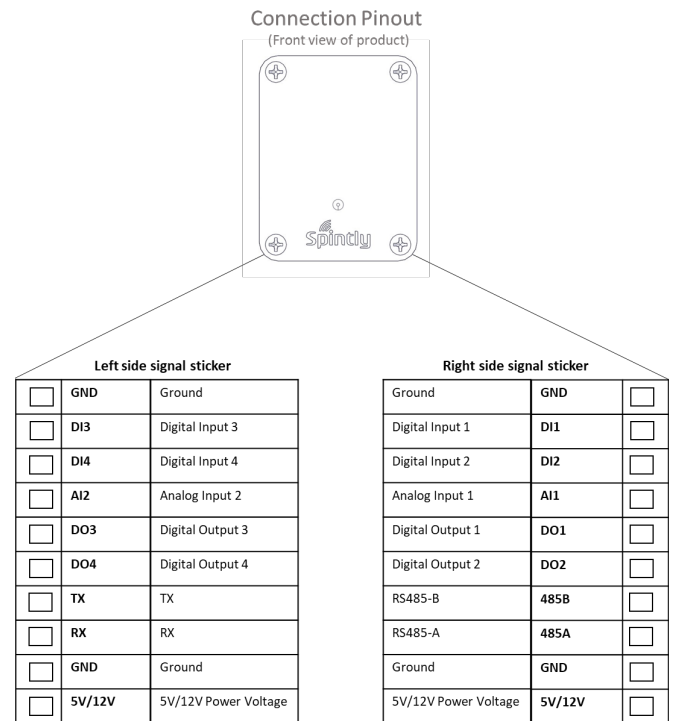
Spintly Mesh - IO provides a scalable approach to increase the range of your BLE mesh-enabled IoT network. It is capable of interfacing with Fire Alarm panels, remote sensors monitoring via additional I/O support, providing a BLE Mesh communication extension to legacy hardware.



## Spintly Mesh IO Features

- 1 BLE Mesh Networking**  
 With BLE Mesh, devices can communicate with one another over an extended range, enhancing the overall performance and coverage of your access control network.
- 2 Wide Input operating voltage**  
 Spintly Mesh IO is designed to accommodate a wide range of input voltages, providing flexibility in its installation and compatibility with various electrical systems
- 3 BLE Mesh range extension**  
 The primary purpose of Spintly Mesh IO is to act as a repeater to extend the range of the mesh network, making it suitable for larger areas, buildings, or outdoor spaces. This is particularly useful in applications where devices are spread out.
- 4 Integration with 3rd party devices**  
 Spintly Mesh IO is designed to work with a variety of third-party BLE devices. This may include fire alarm panels, beacons, and other IoT devices that communicate using BLE technology. It has below connection provisions,
  - Digital Inputs : 4
  - Analog Inputs : 2
  - Digital Outputs : 4

## Mesh IO Pinout



## Pin Description

5V/12V	Power Voltage
GND	Power Ground
DI, DI2, DI3, DI4	Digital Inputs : Internally pulled high, to be pulled low
AI1, AI2	Analog Inputs
DO1, DO2, DO3, DO4	Digital Outputs
TX	LVTTTL Transmit line
RX	LVTTTL Receive line
RS485 A	RS485 differential line A
RS485 B	RS485 differential line B



## Models & Specifications

<b>Model Nos</b>	SMI-01
<b>Input</b>	Power <ul style="list-style-type: none"><li>Voltage ratings : 5V/12V DC</li><li>Power consumption : 0.75mW max at 5V</li></ul> Inputs <ul style="list-style-type: none"><li>Digital Inputs : 4</li><li>Analog Inputs : 2</li></ul>
<b>Output</b>	Digital Outputs : 4
<b>Communications</b>	BLE Mesh, RS485, UART
<b>Enclosure</b>	Dimensions : 50mm X 65mm X 35mm Weight : 40g Housing material : ABS Wall mountable
<b>Environmental</b>	Operating temp: -25 to +85 degree C Operating humidity : 5% to 95% relative, non-condensing
<b>Compliance</b>	FCC certified CE certified RoHS compliant

## Security



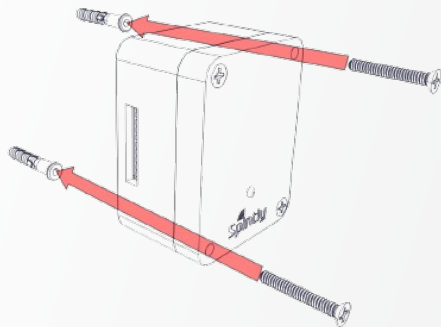
### AES128 bit encryption on Bluetooth mesh communication

Spintly access control system uses AES-128 bit encryption for secure Bluetooth Mesh communication, safeguarding network data.

## Installation

### Easy and cost-effective installation

Spintly Mesh IO ensures easy and cost-effective installation, streamlining the process for businesses and organizations. Wall mounting is effortlessly achieved with just two screws, ensuring a hassle-free setup.



## Applications



Fire Alarms Integration



Remote Sensors monitoring



Indoor Asset Tracking

## Contact Us



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