Milesight VS121, based on Artificial Intelligence (AI) technology, is an AI workplace sensor designed to monitor occupancy & utilization in modern workspace, which can reach up to 95% recognition rate. With the ability to sense from up to more than 78 m², few sensors are needed to cover the same area, decreasing the deploy costs for users. Only counter values are transmitted over LoRaWAN® network, which can prevent the privacy concerns. Based on standard LoRaWAN® protocol, VS121 can work with Milesight LoRaWAN® gateway and mainstream LoRaWAN® network servers. With easy installation, VS121 sensor has great use in shops, malls, offices, exhibitions, etc.

Milesight VS121 sensors are equipped with Wi-Fi for easy configuration without any configuration tools.

**Features**

- Recognition rate is up to 95% based on advanced AI identification and analysis technology and wide detection range
- Support up to 12 mapped regions for detection
- No image data is collected, free from privacy concerns
- Equipped with Wi-Fi for web GUI configuration
- Function well with standard LoRaWAN® gateways and network servers
Applications

- Determine the number of people in specific areas
- Flow detection in shops and malls
- Occupancy detection in offices

Specifications

**LoRaWAN**

<table>
<thead>
<tr>
<th>Protocol</th>
<th>LoRaWAN®</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923</td>
</tr>
<tr>
<td>Tx Power</td>
<td>16 dBm (868 MHz)/20 dBm (915 MHz)/19 dBm (470 MHz)</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>-137 dBm @300bps</td>
</tr>
<tr>
<td>Mode</td>
<td>OTAA/ABP Class C</td>
</tr>
</tbody>
</table>

**People Counting**

- Field of View: 190 ° Horizontal, 112 ° Vertical
- Recognition Range: based on a radius of 5 meters (At the height of 3m)
- Recognition Rate: >95%
- Advanced Custom Setting: Up to 12 mapped regions for detection

**Interface**

- Wi-Fi: IEEE 802.11 b/g/n, 2.4GHz, only support configuration
- Button: 1 × Reset Button, 1 × Wi-Fi Button
- LED Indicators: 1 × Wi-Fi
- Power Input: 1 × Type-C

**Physical Characteristics**

- Power Supply: 5V / 1.5A by Type-C Port
- Operating Temperature: -5°C ~ +55°C
- Storage Temperature: -20°C ~ +60°C
- Relative Humidity: 0 ~ 95% (Non-condensing)
- Color: Black/White (Optional)
- Dimension: 85 × 85 × 20 mm (3.35 × 3.35 × 0.79 in)
- Installation: Ceiling Mounting