

OccuCheck

People Counter.



**Bi-directional LoRaWAN® People counter with
Radar Technology**

Product Overview

OccuCheck is a state-of-the-art people counter designed for effective crowd management in various settings, including conference rooms, hotels, parks, and factories.

Utilizing millimeter wave radar technology, it precisely detects and counts the number of people entering and exiting.

When the number of people exceeds a preset threshold, the **OccuCheck** automatically uploads alarm information to a specified cloud server via its built-in LoRaWAN® wireless module.

Users can conveniently view and analyze the data remotely.

Product Features



Easy Installation and
configuration



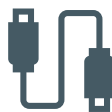
Wireless data transmission
Option through LoRaWAN®
& 4G LTE



Secure operation
with top-down
encryption



Millimeter Wave Radar
Technology



Micro USB powered,
Low Power
Consumption



Integration with
Building Management
System through BACnet
Interface

Communication Technology

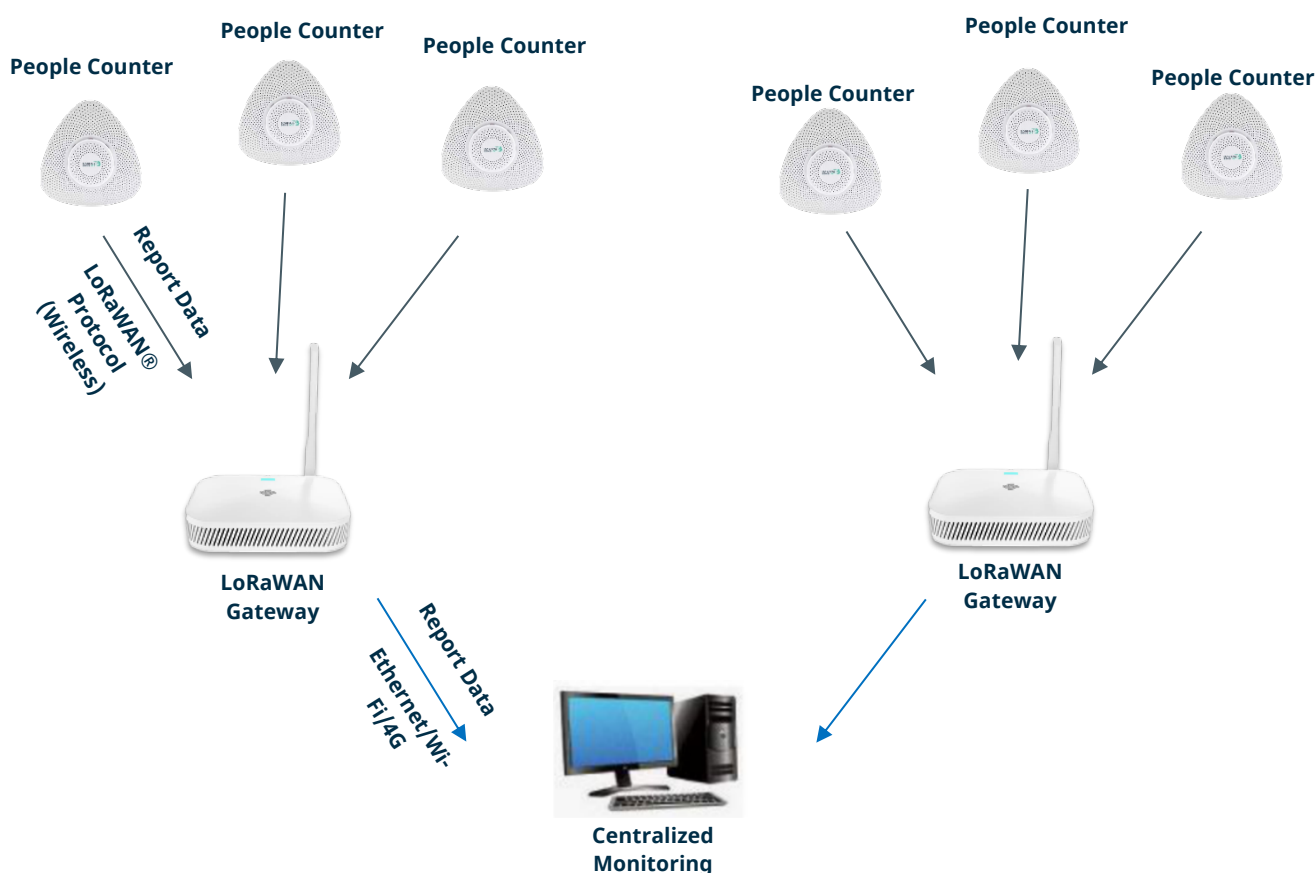
The **OccuCheck** wireless people counter leverages advanced LoRaWAN® technology, ensuring low power consumption and long-range signal propagation for real-time control and monitoring.



Our smart gateway collects near real-time data from all wireless sensors within range, converts it into an easy-to-use JSON format, and publishes it via the MQTT protocol.

Data can be transmitted to any local or cloud MQTT broker through Ethernet, LTE (4G), or WIFI.

Integration to Building Management System (BMS) can be achieved using an external MQTT to BACnet converter.



Specifications

General	
Operating temperature	-20 °C to +75 °C
Storage temperature	-40 °C to +85 °C
Power	Micro USB Powered
Ingress Protection	IP54
Dimension	110*110*25mm
Mounting	Ceiling / Wall Mount
Housing Material	ABS Flame Redundant Shell

Operating Principle	Millimeter Wave Radar
Detection Range	≤3m
Target Speed	≤1.5m/s
Delay Time	≤0.25s
Target Distance in the same distance	≥0.85m
Wireless Communication	
Technology	LoRaWAN®
Frequency	EU868 (868 Mhz) license free
Transmit Range	500m inside Building, 2KM Open Air
Security	128 AES Encryption
Antenna	Internal
Data Format	JSON
Device Class	Class C
Activation Method	OTTA (Over-The-Air-Activation)
Certifications	
Regulatory	CE
Environmental	RoHS