Rack Monitoring Controller

ITE-RMC-G0V1



The Rack Monitoring Controller is a device that keeps server racks and data centers safe by checking important environmental and security conditions. It tracks temperature, humidity, water leaks, unauthorized access, and smoke to ensure the safety and optimal performance of equipment. With real-time monitoring and automatic alerts, the system helps reduce downtime and improve efficiency. It seamlessly integrates with existing infrastructure and provides remote access through a secure web client, allowing users to monitor and manage conditions from anywhere. This advanced solution enables proactive maintenance, enhances security, and ensures smooth operations in mission-critical environments.

In modern data centers and IT infrastructure, security, environmental monitoring, and automation are critical to ensure seamless operations. The Rack Monitoring system is a solution designed to protect, control, and remotely monitor server racks and data centres. It has the following features

- **Security Protection:** Features include authorized access control, Camera Images for Monitoring, water leakage detection, and smoke detection
- Environmental Monitoring: Monitors temperature and humidity both inside and outside the rack.
- **Control Features:** Fans can be controlled based on temperature, schedules, or other parameters. A hooter is activated in case of alarm events.
- **Centralized Monitoring:** All alerts and data are sent to a central monitoring software for immediate action.

Applications

- Server Rack
- Data Centers
- R&D Centers

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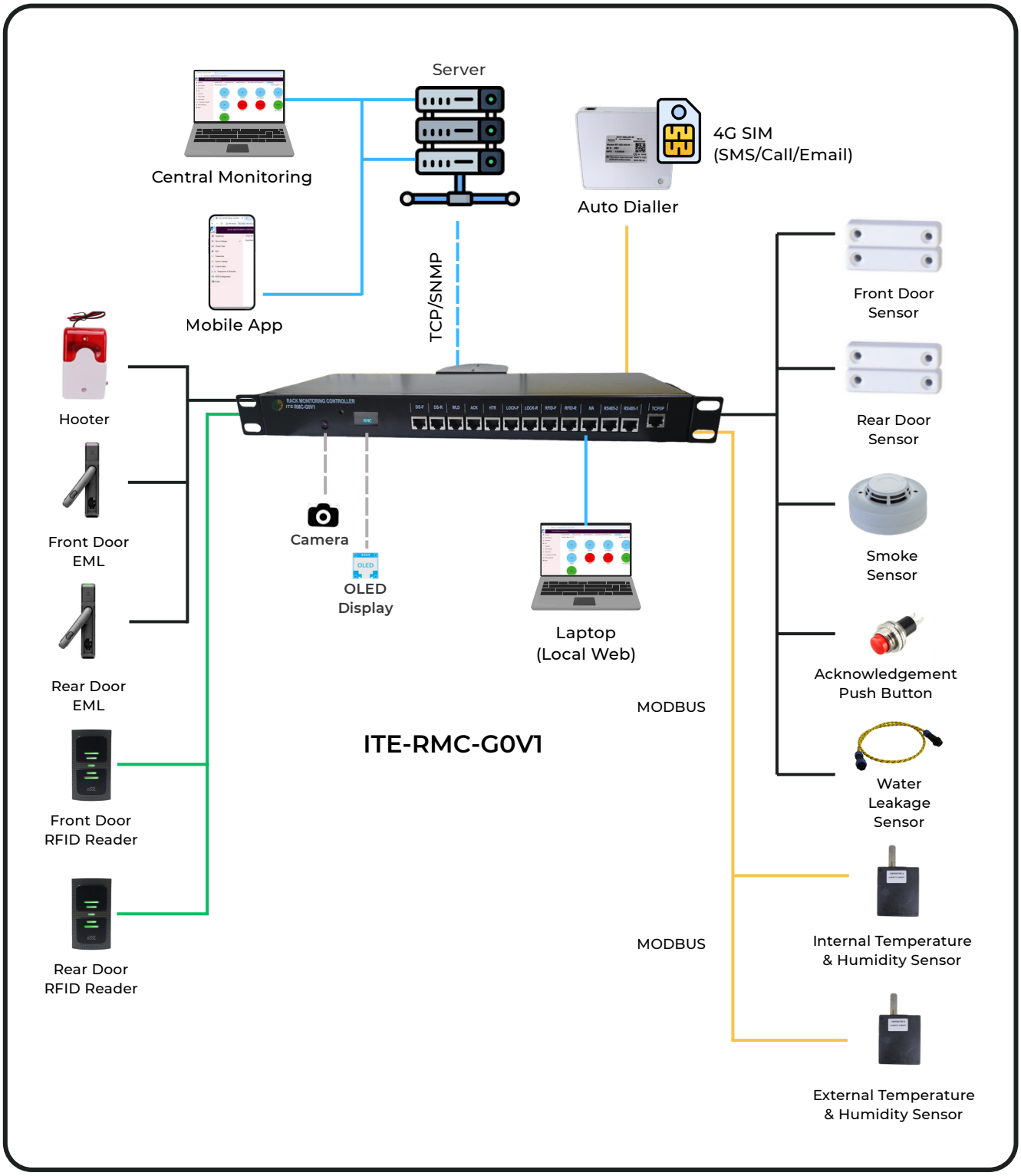
System Diagram



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Product Specification

Digital Input	16 No's Digital Inputs
Fire Alarm Interface	1 No's
Output	9 No's for controls like magnetic lock, fan control, Hooter etc
Camera	2MP (640X480) resolution, 2.8/3.6mm lens, with IR night vision, serial JPEG Camera
Display	OLED display (128*64*0.96)
Access Control	2 No's Wiegand reader interface
Internal Communication	MODBUS
External Communication	Ethernet:100 Mbps-RJ45 Connector
Protocol	SNMP, TCP/IP
Configuration	Web-based
Input Supply	100 to 240V AC,50Hz/60Hz, Power Consumption(29.9 Watts)

Product Selection

MODEL	COMMUNICATION	DESCRIPTION	DIMENSIONS (W*H*D)mm
ITE-RMC-G0V1	Ethernet	Rack Monitoring Controller	W430xH45XL160

Acccessories

S.NO	Product Name	Product Number	Descriptions
1	Auto-Dialer	ITE-ADG-XX-R0	Automatically places voice calls and delivers alerts for real-time emergency notifications.
2	3 Points Electro Mechanical Lock	ITE-ALK-G1	Heavy-duty multi-point locking mechanism for enhanced security and reliable enclosure protection.
3	Harmonic Sensor	ITE-THD-M-G1	Total Harmonic Distortion (THD) Sensor monitors voltage and current harmonics for reliable power quality analysis. Supports Modbus RTU (RS-485) and Ethernet (Modbus TCP/IP) for seamless integration with SCADA, PLCs, BMS, and IoT systems.
4	Temperature & Humidity Sensor	ITE-THS-M-G1	Monitor temperature and humidity with real-time alerts and environmental analytics.
5	Push Button	ITE-PB-G1	Momentary push button used to acknowledge and silence alarms in the monitoring system.
6	Door Sensor	ITE-MC-G1	Detects door open/close status for real-time monitoring, security, and access alerts.

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7	Water-Leakage Sensor	ITE-WL-G1	Detects water leaks in real time and sends instant alerts to prevent damage.
8	Hootor	ITE-HA-G1	High-decibel audible alarm for instant emergency and fault notifications.
9	RFID	ITE-ARD-G1	Enables contactless identification, authentication, and access control using RFID technology.

Product Dimensions



ITE-RMC-G0V1

Calibration

This product is factory calibrated.

Warranty

1 Year warranty

Disclaimer: The specifications and information provided in this datasheet are subject to change without prior notice. The manufacturer reserves the right to modify product features, design, and performance parameters at any time. Please verify the latest specifications before making purchasing or design decisions.

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