



## MIMOS Secured Smart Energy Controller (Mi-SSEC)

Buildings account for a lot of energy usage especially for cooling and lighting. Real-time monitoring of energy consumption of buildings will enable more efficient energy usage. MIMOS Secured Smart Energy Controller (Mi-SSEC) provides an easy way to autonomously monitor and control the energy consumption of office or industrial buildings.

### Overview

The Secured Smart Energy Controller (Mi-SSEC) with an Autonomous Intelligent Ambient Control System is an Internet of Things (IoT) solution capable of turning an industrial building into a smart establishment. The system automatically monitors and controls ambient parameters such as ambient temperature, office and room space brightness. The system is designed to simplify cognitive IoT development to harness the full potential of this technology trend.

### Features

Mi-SSEC comprises the following features:

- **Energy-Saving Automation for Buildings and Homes**  
Software that is able to monitor and automate the control of lighting and cooling to reduce energy consumption.
- **Wireless Interface between Master Hub (up to 31 Slave Systems)**  
WiFi connectivity for easy user interface.
- **Ambient Sensor Input**  
Sensors such for luminosity, temperature, motion and infra-red sensors used in the system.
- **Air-Condition Controller**  
Ability to control air conditioning (AC) unit with this system.

### Technology Benefits

The main impacts of Mi-SSEC are:

- **Energy Monitoring and Control**  
Efficient energy monitoring and usage.
- **Automated Control of Air-Condition and Lighting**  
No human control needed to turn on/off the AC and lights.

### Specifications

Mi-SSEC	
Descriptions	Specifications
Coverage area for 1 Slave	4m x 4m area
Air Conditioning Remote	16°C up to 30°C
Parameter settings for light control	Bright, Medium and Dim
Motion Detection	Detect motion and human existence

### Technology Summary

#### Mi-SSEC

A simple and secured controller to monitor and reduce the energy consumption of buildings.

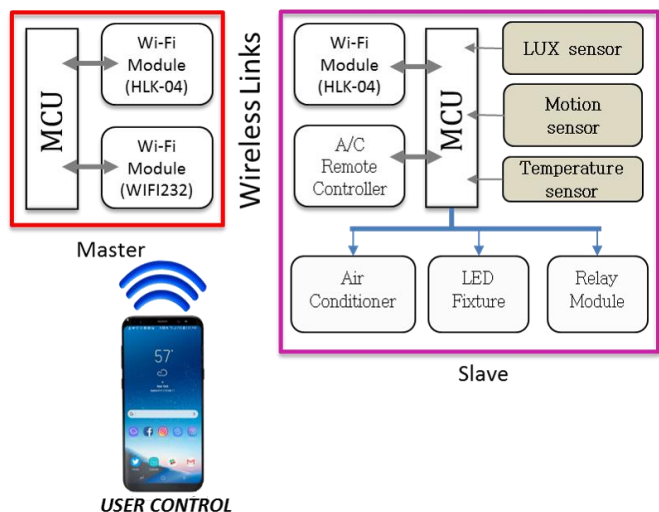
**Industries:** Transportation, Retail, Healthcare, Manufacturing, Property

#### Features

- Energy-saving automation for buildings and homes
- Wireless interface between master hub (up to 32 slaves)
- Ambient sensor input
- Air-condition controller

#### Technology Benefits

- Energy monitoring and control
- Automated control of air-condition and lighting



Mi-SSEC system block diagram



Mi-SSEC prototype system

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