
IWA

Commercial Building

Residential Building

Villa & Mansion

Convenience Store

Supermarket

Library

Gym

Restaurant

Equipment Integration Management

App Mobile Control

Cloud Management

Power Monitoring

Environment Sensing

Smart Algorithm

Wireless Communication Converter

Wireless Gateway

Wireless AI/AO Converter

Wireless DI/DO Converter

IBMS Platform

Digital Logic Controller

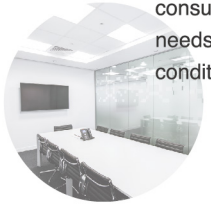
Smart Power Meter

Tablet

Smart Building Management System

Through the application of IoT and big data analysis, the innovative IWA control system connects terminal equipments, environment sensors, and mobile devices using wireless network architecture to provide fast and convenient building environment monitoring and management tools.

Coordinated with IWA cloud management platform, it provides functions such as integrated management of subsidiaries in headquarters, real-time environmental control information of various sites, energy consumption analysis, and optimization strategies to meet the different needs due to scattered business locations and diversified environment conditions.



User's Voice

User

Complex equipment control
Unable to operate efficiently

Intuitive interface
Simple and convenient control with various scenario modes and quick settings

On-site control only
Unable to respond to different events immediately

Remote wireless control
Real-time information and control by mobile App

Unaware of device abnormality
Unable to find the defect until equipement failed

Abnormal alarm
Real-time alarm notification of abnormal events

Operator

Separate equipment
Unable to manage or control efficiently

Integrated equipment control
Great efficiency improvement of equipment management

Lack of privilege control
Local equipment control without management

Flexible privilege management
Multiple privilege levels for system operation and management

Unclear system information
Hard to know the system status without real-time and historical information

Complete data record
Complete equipment operation and power consumption record

Manager

Weak monitoring of scattered equipment
Few equipment control or environment information for each site

Instant environment information
Real-time collection of equipment status and environment information for each site

Non-unified equipment control principles
Equipment control without proper principles in each site resulting in shortening equipment life

Adaptive control strategies
Unified and appropriate control strategies based on the conditions from each local site

Lack of long-term analysis index
Without long-term statistical analysis data as the index for sustainable development

Individual assessment criteria
Operation index and assessment criteria according to the accumulative statistic data of equipment from each local site

Expectation

System Features

Wireless Design

With just one tablet, you can directly control all lighting, air conditioning, curtains, and multiple devices anywhere in the building.

One-Touch Control

You can define scenario modes depending on your own needs. With one touch, the devices defined in the selected scenario mode will run to the specified setting automatically.

Scheduling

According to the preset schedule list, IWA can activate the selected scenario mode at a specific time, and the schedule list can be adjusted flexibly with a perpetual calendar. IWA makes the environment control simple and convenient.

Smart Mode

IWA can automatically operate according to the intelligent analysis result from the on-site environmental data of temperature, humidity, CO_2 concentration, and illuminance.

Connected Equipment

With all kinds of wireless AI/AO, DI/DO controllers, most of the devices can be controlled by connecting to the network. IWA makes equipment smarter and achieve truly intelligent control.

Privilege Management

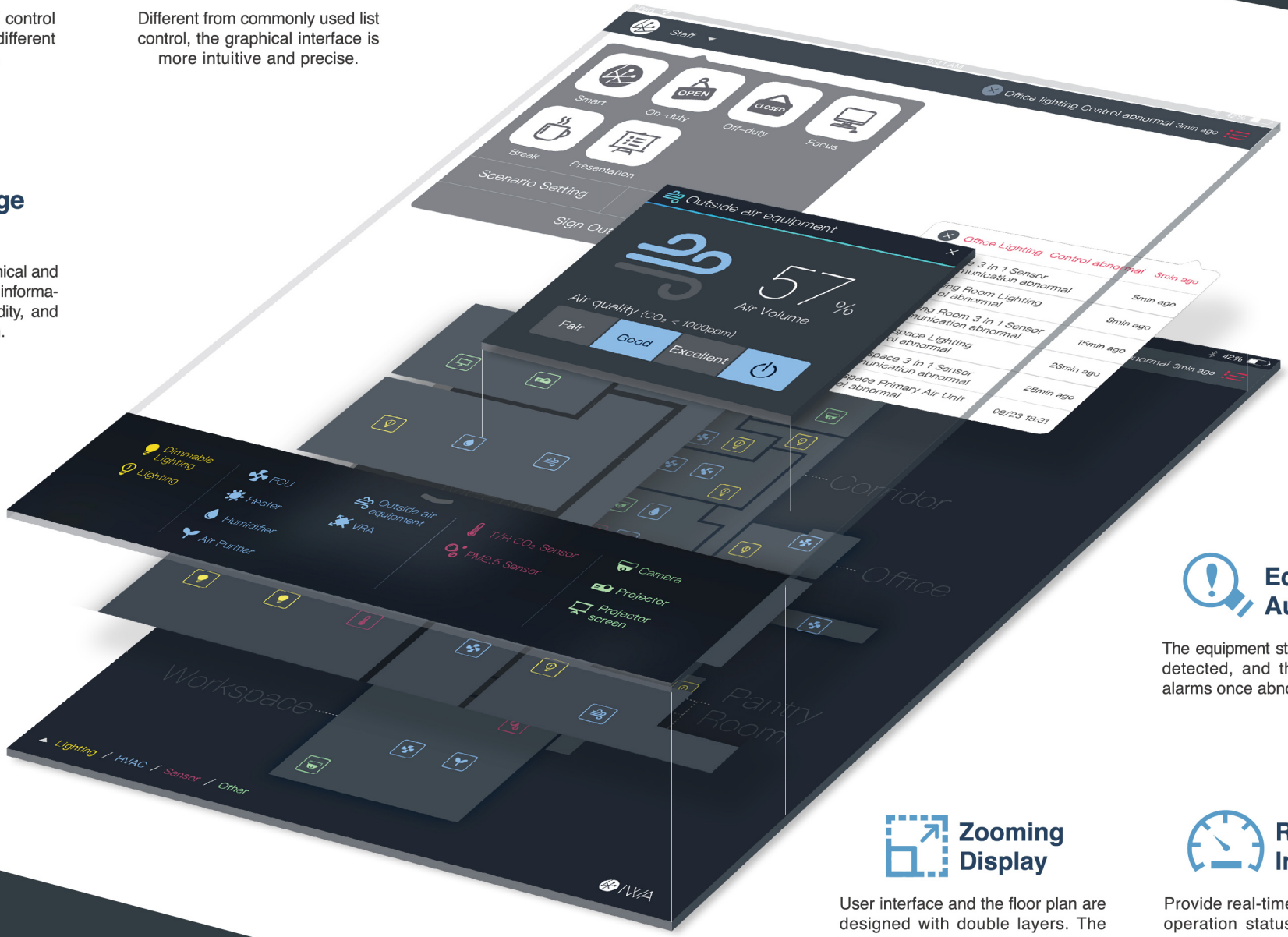
Users can monitor and control different devices with different privilege levels.

Graphic Control

Different from commonly used list control, the graphical interface is more intuitive and precise.

Linkage Logic

Link the control of mechanical and electrical equipment to the information of temperature, humidity, and CO_2 concentration.



Equipment Auto-check

The equipment status is automatically detected, and the system actively alarms once abnormal events found.

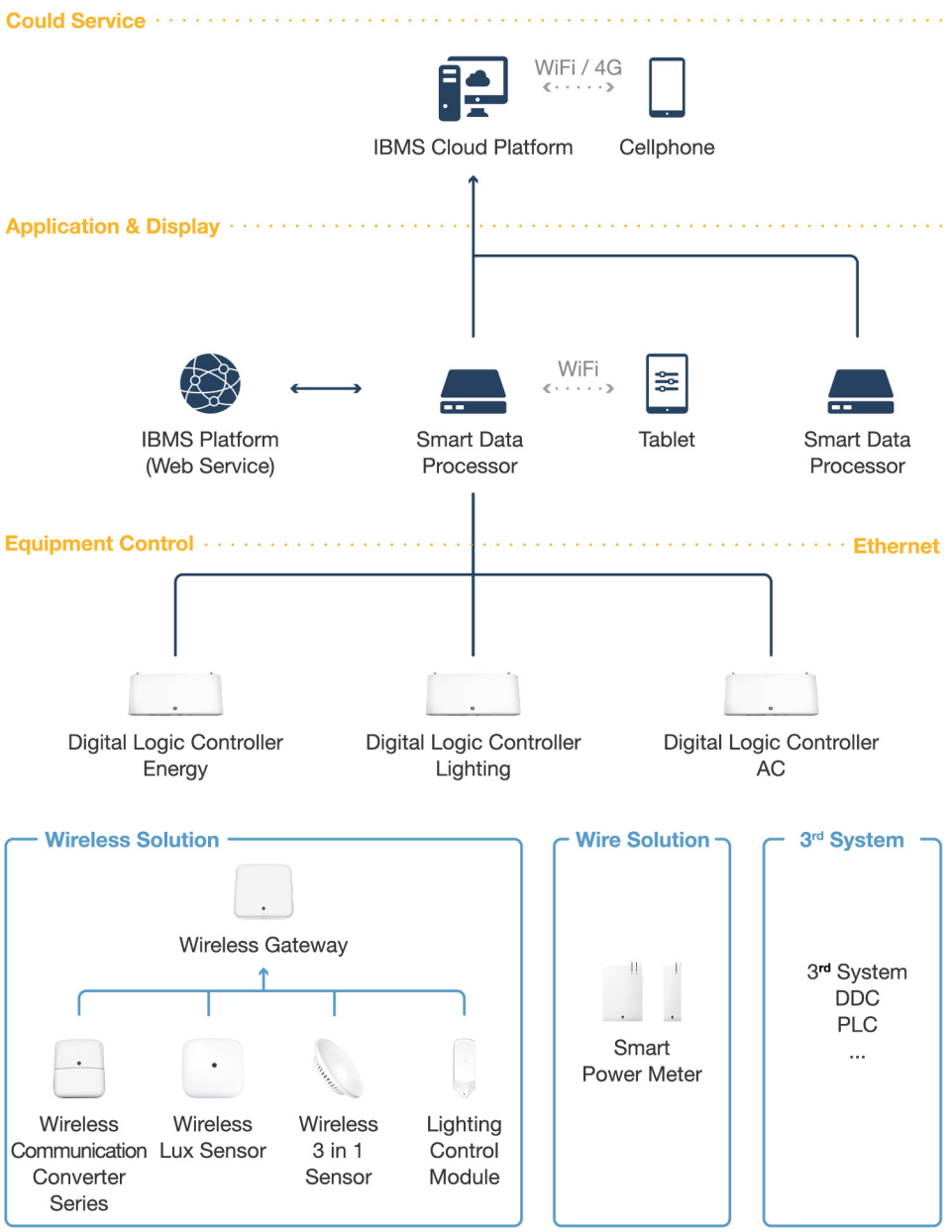
Zooming Display

User interface and the floor plan are designed with double layers. The individual device can be viewed after zooming the map.

Real-time Information

Provide real-time information of the operation status, control records, alarm lists, and video streams.

Structure Diagram



Product Specifications

iKit-E IWATI13E — Digital Logic Controller - Energy

- **Dimension (L×W×H)**: 180×77×30 mm
- **Power requirement**: DC 5V
- **Core processor**: Arm Cortex A8 1GHz
- **Memory**: 512MB
- **Network communication**: RJ-45 x 2, 10/100/1000 Mbps Ethernet; 802.11b/g/n WLAN; Bluetooth 4.0
- **Communication port**: USB 2.0(Host)

iKit-L IWATI13L — Digital Logic Controller - Lighting

- **Dimension (L×W×H)**: 180×77×30 mm
- **Power requirement**: DC 5V
- **Core processor**: Arm Cortex A8 1GHz
- **Memory**: 512MB
- **Network communication**: RJ-45 x 2, 10/100/1000 Mbps Ethernet; 802.11b/g/n WLAN; Bluetooth 4.0
- **Communication port**: USB 2.0(Host)

iKit-AC IWATI13A — Digital Logic Controller - AC

- **Dimension (L×W×H)**: 180×77×30 mm
- **Power requirement**: DC 5V
- **Core processor**: Arm Cortex A8 1GHz
- **Memory**: 512MB
- **Network communication**: RJ-45 x 2, 10/100/1000 Mbps Ethernet; 802.11b/g/n WLAN; Bluetooth 4.0
- **Communication port**: USB 2.0(Host)

Wireless Gateway — iGW CPWSGW-Z

- **Dimension (L×W×H)**: 85×85×25 mm
- **Power requirement**: DC 24V / PoE
- **Network communication**: IEEE 802.15.4; WiFi; Ethernet

Wireless DI/DO Converter — iCube-DIO ZCUBE001

- **Dimension (L×W×H)**: 130×100×35 mm
- **Power requirement**: AC 100-240V; DC 12V / 24V
- **Network communication**: IEEE 802.15.4
- **Specification**: 4DO+4DI; DO: 12V / 24V; DI: Dry Contact / Wet Contact

Wireless AI/AO Converter — iCube-AIO ZCUBE002

- **Dimension (L×W×H)**: 130×100×35 mm
- **Power requirement**: AC 100-240V; DC 12V / 24V
- **Network communication**: IEEE 802.15.4
- **Specification**: 4AO+2AI; AO: 10V PWM / 0-10V / 0-20mA; AI: 0-10V / 0-20mA

Communication Converter — iCube-C ZCUBE003

- **Dimension (L×W×H)**: 130×100×35 mm
- **Power requirement**: AC 100-240V; DC 12V / 24V
- **Network communication**: IEEE 802.15.4
- **Specification**: I^2C; RS-485 / RS-422 / RS-232

Product Specifications

Wireless Lux Sensor

iSens-LUX | ZS-Lux

Dimension (L×W×H)
60×60×10 mm

Network communication
IEEE 802.15.4
Mesh Network

Power requirement
DC 5V / 12V

Operation temp.
0-40°C

Coverage
Point source

Wireless 3 in 1 Sensor

iSens-AIR | ZS-$THCO_2$

Dimension (L×W×H)
56×56×12.5 mm

Network communication
IEEE 802.15.4
Mesh Network

Power requirement
DC 24V / 5V mini USB

Operation temp.
0-50°C

Humidity
1-99% RH

CO_2 concentration
0-2,000ppm

Lighting Control Module

LCM | ZS-LightPWM

Dimension (L×W×H)
80.5×27.5×27.5 mm

Network communication
IEEE 802.15.4

Power requirement
DC 5V

Operation temp.
0-40°C

Heavy Electric Management Power Meter

iMeter | EMA101

Dimension (L×W×H)
110×83×52 mm

Input voltage
Phase voltage
80-350 VAC
Line voltage
140-600 VAC

Input current
5A (Measurement ratio can be set)

Protocol
RS-485
Ethernet

Power
AC 80-264V

Heavy Electric Management Extension Module

iMeter | EMA103

Dimension (L×W×H)
110×38×52 mm

Input voltage
Phase voltage
80-350 VAC
Line voltage
140-600 VAC

Input current
5A (Measurement ratio can be set)

Energy Management Power Meter

iMeter | EMV101

Dimension (L×W×H)
110×83×52 mm

Input voltage
Phase voltage
80-350 VAC
Line voltage
140-600 VAC

Input current
CTΦ10mm (60A)
CTΦ16mm (100A)
CTΦ24mm (200A)
CTΦ36mm (300A)
CTΦ36mm (400A)

Protocol
RS-485
Ethernet

Power
AC 80-264V

Energy Management Extension Module

iMeter | EMV103

Dimension (L×W×H)
110×38×52 mm

Input voltage
Phase voltage
80-350 VAC
Line voltage
140-600 VAC

Input current
CTΦ10mm (60A)
CTΦ16mm (100A)
CTΦ24mm (200A)
CTΦ36mm (300A)
CTΦ36mm (400A)

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