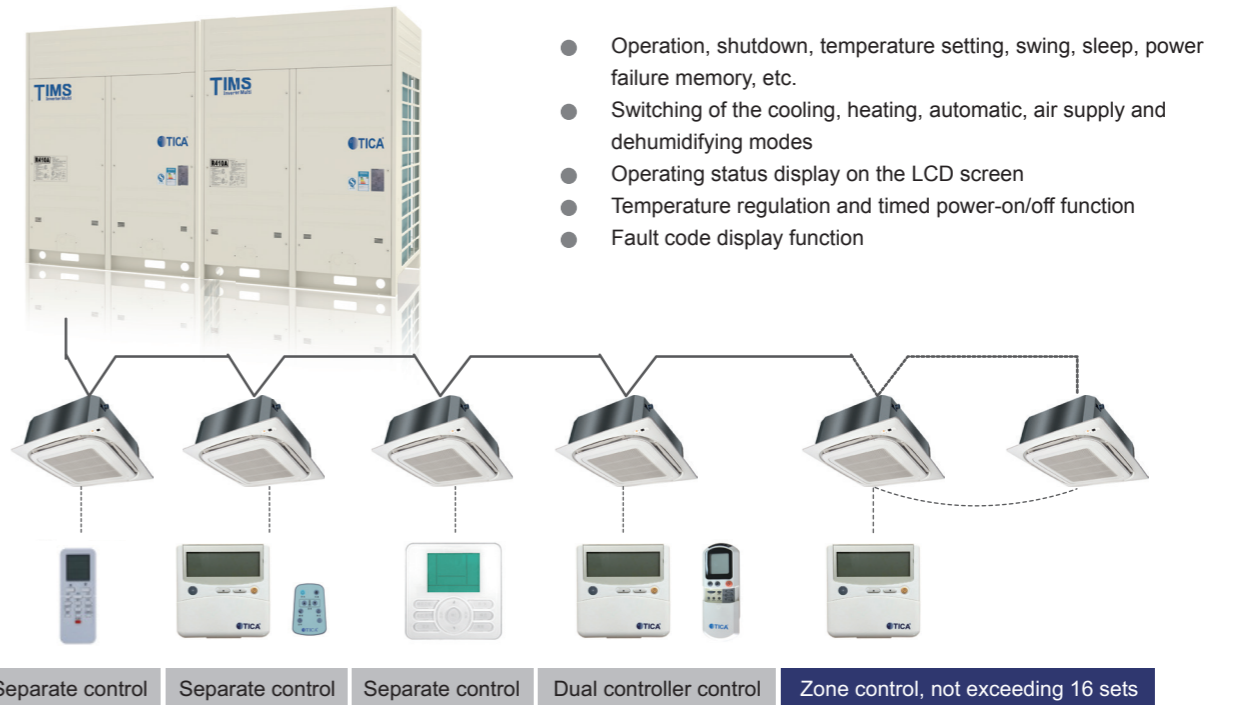


















INTELLIGENT CONTROL

- Independent Control 38
- Centralized Control 39
- Implementing Intelligent Control 39
- Household-based Charging 40
- Building Automation (BMS) System 41

Independent Control



IDU type	Model	Appearance				
Four-way cassette	TMCF		Optional	Optional	Optional	Optional
One-way cassette	TMCS		Optional	Optional	Optional	Optional
Two-way cassette	TMCD		Optional	Optional	Optional	Optional
Slim Low ESP duct	TMDN		Optional	Optional	Optional	Optional
Standard duct	TMDN		Optional	Optional	Optional	Optional
High ESP duct	TMDH		Optional	Optional	Optional	Optional
Big capacity duct	TMDH		Optional	Optional	Optional	Optional
Fresh air handling unit	TMDF		Optional	Optional	Optional	Optional
Floor ceiling	TMVX		Optional	Optional	Optional	Optional
Wall mounted	TMVW		Optional			

Centralized Control

Remote centralized controller

- Able to implement centralized control or separate control on 64 IDUs in 8 systems
- Mode locking and single unit query/all control functions
- Setting operation start and end time of air conditioner
- Fault indication, uniform control interface and humanized operation interface
- Mode switching
- Supporting the longest control signal line of 1000 m
- Operating status monitoring function
- Fault code display function



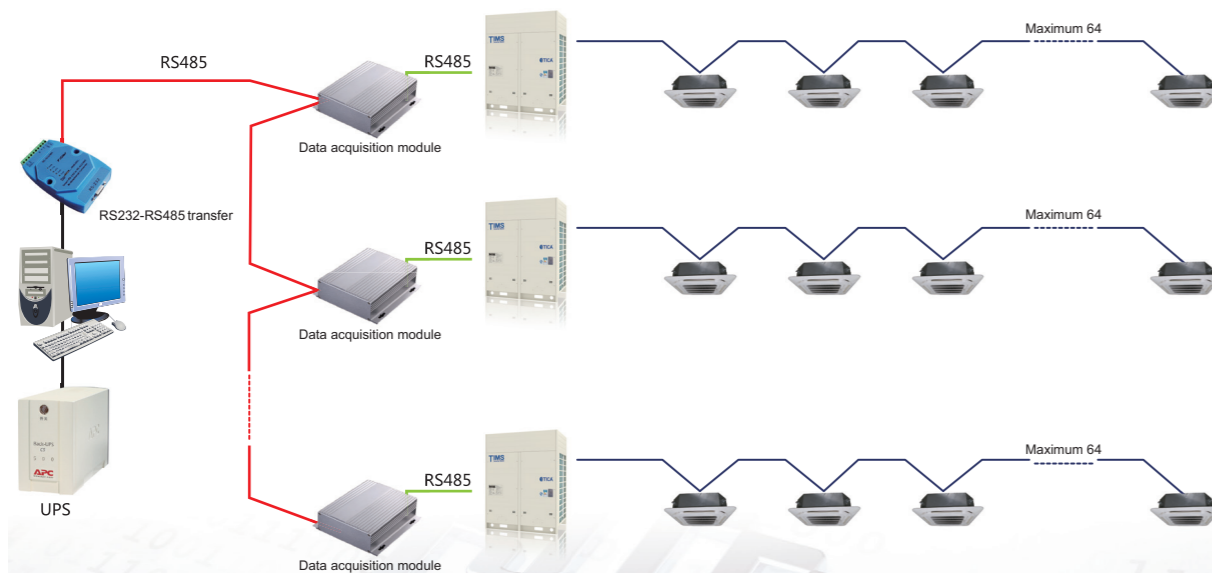
Centralized control

Implementing Intelligent Control

Intelligent Management System

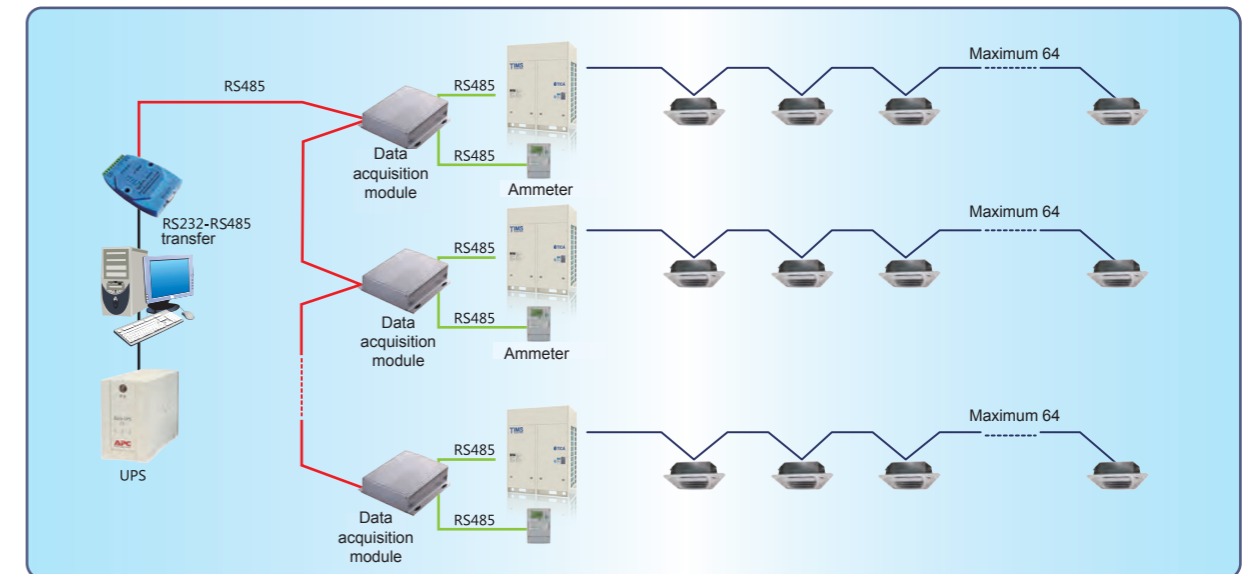
The IDUs are connected to a computer so that full automatic control can be implemented on the system through the computer. The control function is powerful, and operations are simple and clear. One set of intelligent management system can connect to 32 sets of systems and 2048 IDUs at most, and realize large scale centralized control.

- Free grouping and zone management
- Perfect schedule management function
- Historical data record
- Schedule control function of week/month/year
- Single-unit or centralized operation, shutdown, temperature setting, mode switching, etc.
- The air conditioning systems of multiple buildings can be controlled in a centralized manner at the same place
- Permission setting
- Temperature control, time switch
- Fault code display function
- Interlock control
- Remote management



Household-based Charging

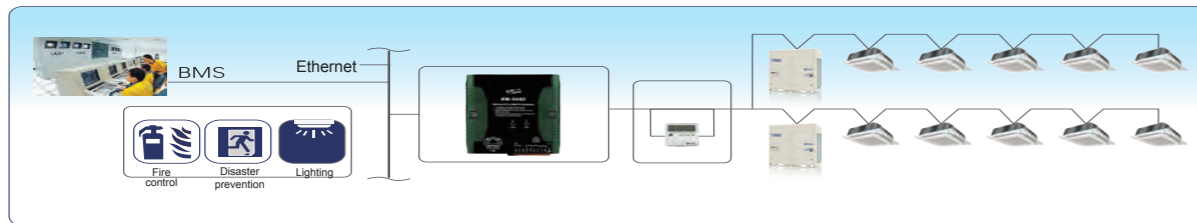
- The household-based charging software provides the complete unit monitoring and control functions and can realize all-dimensional dynamic monitoring on the ODU operating status.
- Network control is realized for a maximum of 2048 IDUs, and the control signal of the data acquisition module can reach the maximum distance of 1200 m.
- The cooling system topology map can be set and displayed visually.
- The market-tested electricity fee distribution algorithm implements convenient electricity fee distribution management, and detailed historical data forms can be generated.
- Users, electricity prices and groups can be set so that the user can realize flexible management on household-based charging of VRF units.
- System energy saving settings:
 - ① Operating status monitoring function
 - ② Fault code display function



Building Automation (BMS) System

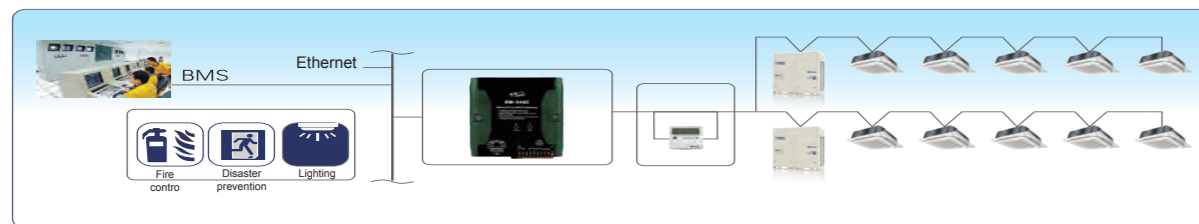
TIMS adopts multiple automatic control systems to access the building automation system easily, and full automatic control of the system is realized through the computer. The control function is powerful, and operations are simple and clear.

LonWorks system



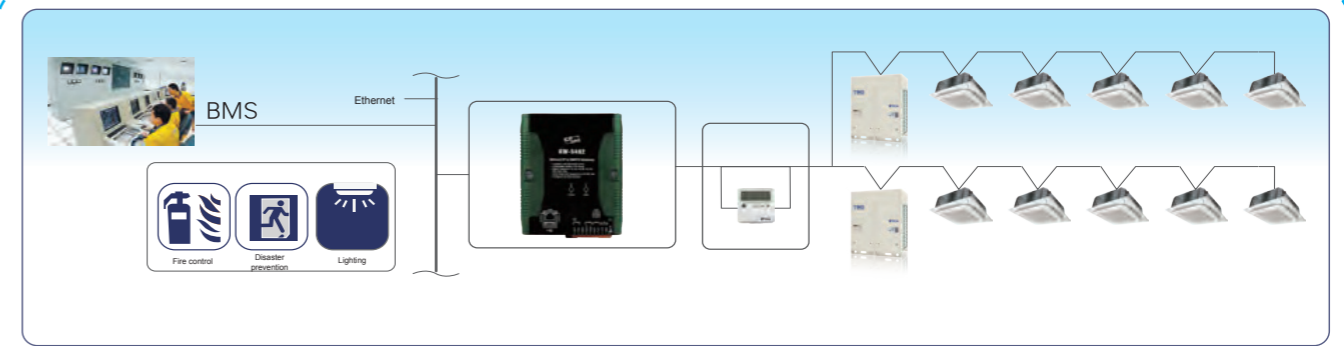
- Connecting to a maximum of 1024 IDUs and 16 sets of ODUs
- Powering on/off the air conditioner, controlling operation, and monitoring the operating status
- Monitoring the IDU fault code
- Monitoring and setting the IDU temperature
- Monitoring and switching the operating mode
- Setting remote controller permissions
- Free grouping and zone management
- Perfect schedule management function
- Historical data recordn
- Schedule control function of week/month/year
- Single-unit or centralized operation, shutdown, temperature setting, mode switching, etc.
- Interlock control (fire alarm, door lock, fault, etc.)

BACnet system



- Connecting to a maximum of 1024 IDUs and 16 sets of ODUs
- Powering on/off the air conditioner, controlling operation, and monitoring the operating status
- Monitoring the IDU fault code
- Monitoring and setting the IDU temperature
- Monitoring and switching the operating mode
- Setting remote controller permissions
- Service monitoring
- Automatic unit operation according to settings
- Shielding function of the user's air conditioner controller
- Free grouping and zone management
- Perfect schedule management function
- Historical data record
- Schedule control function of week/month/year
- Single-unit or centralized operation, shutdown, temperature setting, mode switching, etc.
- Interlock control (fire alarm, door lock, fault, etc.)

ModBus system



- Connecting to a maximum of 1024 IDUs and 16 sets of ODUs
- Powering on/off the air conditioner, controlling operation, and monitoring the operating status
- Monitoring the IDU fault code
- Monitoring and setting the IDU temperature
- Monitoring and switching the operating mode
- Setting remote controller permissions
- Service monitoring
- Automatic unit operation according to settings
- Shielding function of the user's air conditioner controller
- Free grouping and zone management
- Perfect schedule management function
- Historical data record
- Schedule control function of week/month/year
- Single-unit or centralized operation, shutdown, temperature setting, mode switching, etc.
- Interlock control (fire alarm, door lock, fault, etc.)

● Intelligent Interlock for Hotels

The specially designed seamless connection interface for hotel door card can be selected in the application scenarios such as hotels. When the door card is inserted, the IDU can be controlled freely; when the door card is removed, the IDU is turned off automatically after a delay, making hotel management convenient and saving power.



● Intelligent Diagnosis/Debugging/Upgrade Function ("Black Box")

The "Black Box" data saving device is provided so that the data related to unit operation can be read conveniently during after-sales maintenance and debugging, greatly enhancing the convenience of maintenance and debugging.

When the system program needs to be upgraded, save the IDU and ODU control program in a USB drive, and insert the USB drive into the reserved USB interface of the main board. Then, the system control program can be upgraded through simple and intelligent button operations.

