

iTalent Series Medium and Large Data Centers

Overseas Department

www.invt.com



iTalent Series medium and large scale integrated data center adopts integrated solution, integrating cabinet system, power supply and distribution system, cooling system, power and environment system, access control system, skylight control system and integrated cabling system. Closed cold aisle design, matched with in-row air conditioner near-server-side cooling, efficient and reliable, green and energy-saving, with rapid deployment, flexible expansion, safety and reliability, intelligent management and other features.

2、System composition



3 Product appearance



Introduction of structural components



Sliding door with strip screen

Sliding doors with logo

invt Access door structure- automatic sliding door Automatic sliding door guide 11 - Ca

Access door structure-manual sliding doors



Access door structure-manual rotary doors



Rotary doors with strip screens



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Rotary doors without strip screens

4、 Product features

1. Simple and generous appearance;

2. automatic sliding doors, manual sliding doors and manual rotating doors are available for access doors.

3. Closed cold aisle with frequency conversion refrigeration air conditioner, with remarkable cooling and energy-saving effect, while equipped with skylight control system to prevent overheating of equipment caused by air conditioner failure.

4. Supporting multiple modes of power supply and distribution.

5. Centralized monitoring, support for remote login management, real-time management, convenient and fast.

6. Plenty of optional parts.

5 Nower distribution system



6. Cooling system



12.5kW/25kW/30kW in-row air conditioner indoor unit



12.5kW in-row air conditioner outdoor unit



25kW/30kW in-row air conditioner outdoor unit



6. Cooling system



40kW/50kW/60kW in-row air conditioner indoor unit



40kW in-row air conditioner outdoor unit



50kW/60kW 40kW in-row air conditioner outdoor unit



7. Power and environment system

Air Conditioner UPS SMS alarm eMTR PDM 21.5 inch screen Temperature and Switch humidity sensor Flood Detection Sensor RS485 communication **I** VCR Camera U bit detection interface P.S. Power Compatible Input dry contact*N with large and Control board (various buttons) input small power Output dry contact*N (front and rear door light control) Long screen Sound and light alarm Electromagnetic lock for Smoke Sensor front door Sliding door control box Electromagnetic lock for rear door Infrared sensor Compatible with 15~25 cabinets on one side

Power and environment system host-eMTR



The power and environment system carries out telemetry, telematics, telecontrol and remote control of various parameters of the environment of the server room, such as power supply cabinets, UPS, air conditioners, batteries, etc., as well as access control, infrared, skylight, flooding, temperature and humidity, smoke detection, etc., to monitor its operating parameters in real time, diagnose and deal with faults, record and analyze relevant data, and carry out centralized monitoring and centralized maintenance of the equipment computer control system, the power and environment system host eMTR, as one of the most important equipment of the iTalent system, plays an irreplaceable role in the whole system.

Extended control modules





The expansion control module is placed between the first cabinet and the second cabinet behind the front access door, install one for each project.

Its role is: to provide 12V power supply to all access devices (access control, ambient light, electromagnetic lock, lighting, etc.), communicate with the power and environment host, control the channel door open/close, detect the status of the door, control the lights in the channel, control the lights on the channel door, environmental detection, skylight control, etc.

iTalent expansion control module wiring diagram

iTalent control module wiring diagram (automatic sliding door)



Integrated access control machine (default model)



Access control machine as a privilege management equipment, combined with intelligent monitoring screen can realize the role of opening and closing the cabinet door, identification, user management, password / fingerprint setting and modification.

Item	Parameter
Voltage	12VDC
Recognition	fingerprint, ID card/IC card, password
Screen	2.0inch TFT HD color screen
Language	Chinese,
Communication	Weigand
User number	Up to 5,000 users; up to 1,500 fingerprints
Environment	temperature: -10°C-+50°C; Relative humidity:≦95%(non-condensing)
Dimension	180*82*55mm

Face recognition access control machine (option)



Face recognition machine as an option, connected to the Tengiz expansion control module, combined with the dynamic ring system can realize the role of opening and closing the channel door, identity recognition, user management, password setting and modification, etc.

Item	Parameters
Voltage	12VDC
Recognition	Automatic face recognition
Screen	8-inch HD color touch screen, resolution 800*1280
Camera	200W Binocular Live Camera
Identification distance	0.5-2m
Identification time	Less than 300ms
Identification accuracy	99.70%
Language	Chinese
Communication	Wegen, RS485, Network, USB
User number	Up to 20,000 users
Environment	temperature: -15°C-+55°C; Relative humidity:≦90%(non-condensing)
Dimension	246*123*21.5mm

Strip screen (option)



Channel door header strip screen can be static display pictures, dynamic display subtitles, can also play video



Item	Parameters
Dimension	37-inch
Display Resolution	1920*540
Effective display area	904mm*254mm
System Parameters	Android 8.0, 1GB DDR3+8GB ROM
Communication	Network, USB
Power supply	AC 110 -240V , 50/60Hz , 60W
Environment	temperature: -10°C-+50°C; Relative humidity:≦95%(non-condensing)
Dimension	930*280*34mm

Temperature and Humidity Sensor(optional)



Monitor the temperature and humidity of the cold channel with 1 mesh port on the top and bottom of the sensor. invt

By default, one sensor is installed at the top of the front and back in the channel.

Parameter
-40°C-+125°C
± 0.2 °C
-20°C-+80°C
0~100%
$\pm 4\%$
12VDC
125*64*37mm

Water Leakage Sensor(optional)



Monitor water accumulation at the bottom of the air conditioner with 2 mesh ports at the top of the sensor.Can be connected to the positioning type water leakage rope, can also be connected to the nonpositioning is the water leakage rope.



Parameter
12VDC
-20°C~+80°C, 0-95%RH (non-condensing)
Suitable for the sensor with positioning, 1m
125*64*37mm

Smoke, infrared and camera (optional)

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Smoke detectors, infrared intrusion detection, cameras and security exit signs are installed on top of the blind skylights in the passageway.

8. On-site installation guide

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Sequence numbers are posted on the packaging of the equipment sent to the site. During installation, unpack and install according to the sequence number. After all the current sequence numbers have been installed, remove the equipment with the next sequence number to avoid messy site.









9、Extended control module signal cable





iTalent extended control module power supply



Schematic diagram of cable routing for the front access door



Schematic diagram of cable routing for the rear access door



Skylight light and electromagnetic lock cable



Face recognition terminal cable



In-channel human sensor cable



21.5-inch integrated computer cable



37" Strip Display Cable (optional)







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Connect to iTalent in-cabinet network switch



10. HMI

Local monitoring interface and WEB monitoring interface: 21.5-inch touch screen color LCD Monitor all devices and assist in analyzing data



Mobile APP interface

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