



Data Center DCIM System

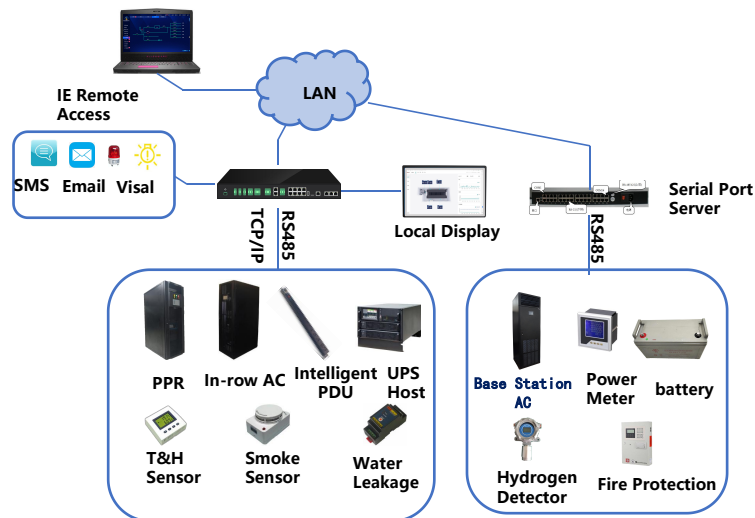


DCIM

ZT-INFINITY TECHNOLOGY

Overview

ZTmm Data Center Power and Environmental Monitoring System integrates monitoring, management, and early warning functions. It centrally monitors UPS, environment, and power parameters, reducing maintenance costs, optimizing resources, and improving operational efficiency for enterprises.



Function



Comprehensive Monitoring

◆ Centralized and unified monitoring and management of power distribution parameters, UPS, server room environment (T&H, water, leakage, smoke, monitor and alarm, etc.) in data room



Monitoring Visable

◆ Support visualization, graphical interface, the system software supports the actual environment of the server room to simulate a high-fidelity 3D model (Optional)



Diversity of visit

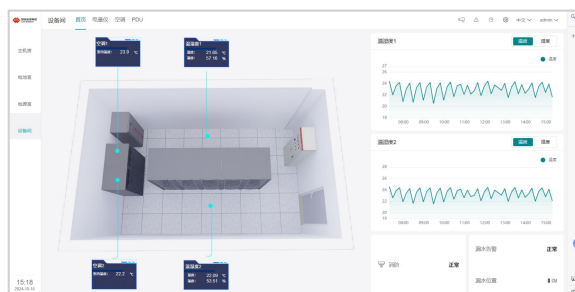
◆ The system software should enable consistent viewing and management on intelligent terminals, with synchronized data and interface refreshes across clients IE, at a speed of under 2s



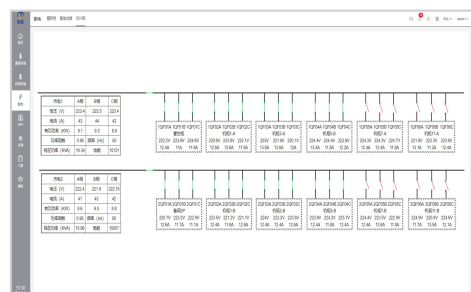
Diversification of alarms

◆ Support SMS alerts, voice, email, etc function

Platform software interface



【Web Remote Browsing Interface】



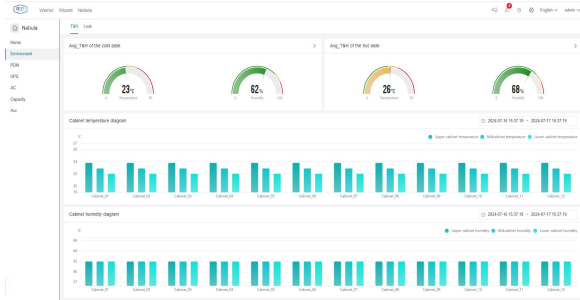
【Distribution Monitoring Interface】



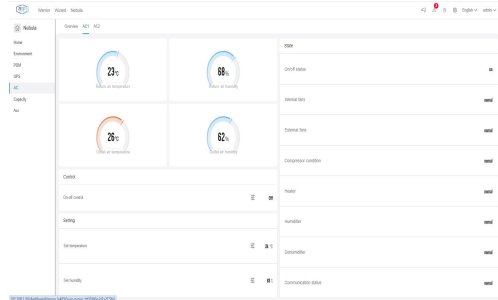
Data Center Power and Environmental Monitoring System

ZT-INFINITY TECHNOLOGY

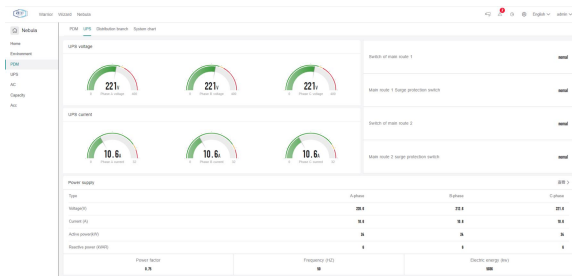
Platform software interface



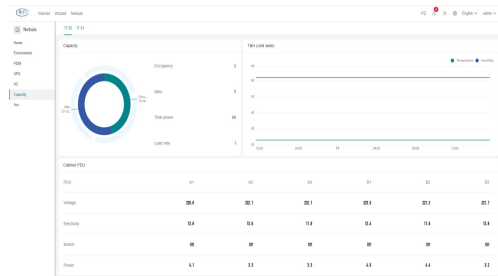
[T&H monitoring interface]



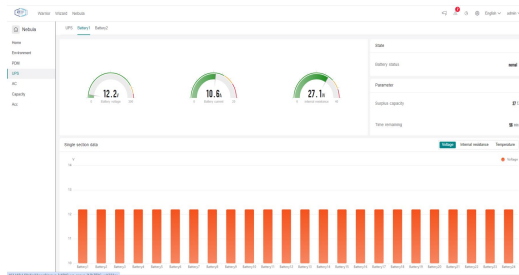
[AC monitoring interface]



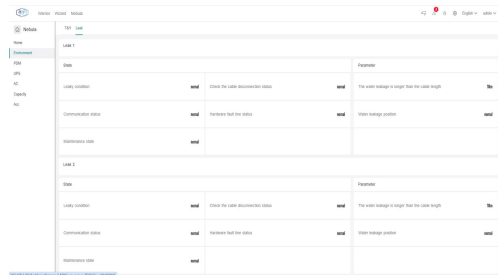
[UPS monitoring interface]



[Capacity monitoring Interface]



[Battery monitoring Interface]



[Water leakage monitoring Interface]



Data Center Power and Environmental Monitoring System

ZT-INFINITY TECHNOLOGY

	All-in-one monitoring host ZT-RMU30-8	1. 19-inch 1U rack mount 2. Monitoring host configuration ARM Cortex-A9 embedded industrial processor, 1GB memory, 8G storage capacity, support through the TF card expansion, the maximum support for 128G 3. Linux operating system, open source unrestricted, safe and reliable 4. Monitoring host port configuration: 8 serial ports (RS485/ RS232 can be switched), 16 DI ports (each 4 groups of DI ports with a group of 1 DC12V output), 4 DO ports (2 dry contacts, 2 wet contacts), 8 AI ports (each 4 groups of AI ports with a group of 1 DC12V output), and support for expansion boards, support for access to a variety of intelligent devices by serial or TCP, can be accessed not less than 10,000 test points; 4 Ethernet, 10 /100M adaptive; 2 USB2.0 interface; real-time monitoring of power distribution cabinets, precision air conditioning, water leakage, UPS, temperature and humidity values, smoke sensors and other equipment 5. Each port supports over-voltage, over-current and high level lightning protection, anti-reverse connection, misconnection function
	Basic software for monitoring systems	1. Authorized users can remotely access the monitoring system through a browser 2. Support equipment monitoring real-time status, system log query, device management, user management, system settings, time settings and other related system parameters configuration, as well as system upgrade functions 3. Support through the configuration of the SNMP northbound protocol interface 4. WEB interface and the large home page to support the display of the 3D map 5. Support alarm management software: Realize alarm level management, alarm event management and so on
	Touch screen	1. ≥ 10 inch touch screen LCD 2. The monitoring host is equipped with a 32-bit ARM Cortex-A9 embedded industrial processor, 1GB of memory, and 32GB of storage space 3. Adopting Linux operating system, open source without restrictions, safe and reliable; 4. Monitoring host port configuration: 6 RS485, 4DI, 2DO, 2 USB ports, dual network cards, dual network ports, 1W measuring points, which can monitor real-time equipment such as precision distribution cabinets, precision air conditioning operation status, water leakage status, UPS operation status, temperature and humidity values, smoke detection status, etc. inside the submodule;
	Serial port server	1 Ethernet port port number: 1 2 Ethernet port rate: 10/100M full half-duplex adaptive, MDI/MDIX adaptive 3 Ethernet port type: 8PIN RJ45, compatible with IEEE 802.3 4 Ethernet port configuration mode: Web mode, centralized configuration management software 5 Serial port number: 4/8/16 6 Serial port standard: RS232/RS485 7 Serial port type: industrial 3PIN terminal 8 Port protection: electrostatic discharge EN61000-4-2, level 3, contact/air discharge: 6kv/8kv; lightning surge EN61000-4-5, level 3, 4KV/2KA@8/20us&2Ω 9 Shell material: 1.0mm metal shell 10 Input voltage: DC: -48V; AC: 110/220V adapter 11 Wiring: 3PIN terminal 12 Power consumption: <15W
	Temperature and humidity sensor TH-10	1. Communication protocol: RS485 interface, MODBUS-RTU; 2. Operating voltage: 12VDC (10V ~ 15VDC); 3. Temperature measurement range: -20 °C ~ 80 °C; 4. Humidity measurement range: 0 ~ 100% RH; 5. Temperature error: $\leq \pm 0.3$ °C, tested at 25 °C; 6. Humidity error: $\leq \pm 3\%$ RH, tested at 25 °C; 6. EFT (pulse group): differential mode ± 2 KV; 7. ESD (electrostatic): contact discharge ± 6 KV, air discharge ± 8 KV; 8. Structure material: flame retardant ABS plastic, flame retardant grade 94V-0.
	Smoke Sensor ZT-YG	1: Operating voltage: AC/DC 9-24V; 2: Standby current: ≤ 16mA; 3: Alarm current: ≤ 19mA; 4: Operating temperature: -10°C ~ +50°C; 5: Ambient humidity: maximum 95% RH (no condensation); 6: Anti-RF interference: 10MHz-1GHz20V/m; 7: Alarm output: Normally open/normally closed selectable, contact capacity DC24V100mA; 8: reset mode: automatic reset/power failure reset optional; 9: sensitivity: 0.5db/m (± 0.1db/m).



Data Center Power and Environmental Monitoring System

ZT-INFINITY TECHNOLOGY

	Non-locating water leak detector ZTCBOX-NL1	1. Working conditions power input: 7.5 ~ 15VDC; operating current: $\leq 0.1A$; ambient temperature: $-10^{\circ}C \sim 50^{\circ}C$; ambient humidity: 10% ~ 90% RH 2. Water leakage detection detection channel number: 1 way; cable length: the maximum detection distance up to 200m; detection sensitivity: can be set to 8 kinds of sensitivity; response time: $<3S$; relay output: 1 way, contact DC30V 1A; detection of water quality: ordinary tap water 3. EMC indicators of electrostatic protection: (Contact Discharge: $\pm 6KV$; Air Discharge: $\pm 8KV$) 4. Contains a 5m water leakage sensing Rope
	Acquisition Module Box ZTCBOX-8	1. Specification: 440mm(W)*1U(H)*450mm(D) 2. Plate: high quality cold rolled steel plate, thickness 1.2mm 3. Installation: 19-inch rack-mountable 4. The collection module box can provide 8 DI ports, 6 DO ports; 2 auxiliary output ports, 2 DC12V ports, 1 AC220V port; 1 485 communication port for connecting intelligent devices 5. Working conditions: ambient temperature $-10^{\circ}C \sim 50^{\circ}C$, ambient humidity 10% ~ 90%RH, no condensation
	Battery monitoring mainframe CM-03N	1. Support 200 single monitoring module 2. Communication interface: RS485, RJ45 3. Support modbus, TCP/IP and other transmission protocols 4. Automatic networking, no need for complex wiring, configuration, simpler operation 5. Full-automatic inspection of the battery internal resistance, terminal voltage and temperature, and automatic recording of monitoring data
	Single Battery Acquisition Module ZT-TL-2	1. Single voltage measurement range and accuracy 2V module: $1.5V \sim 3.5V \leq 0.1\%$ 12V module: $8V \sim 20V \leq 0.1\%$ 2. Single internal resistance: $1\mu\Omega \sim 100000\mu\Omega$, precision: 5%, resolution: $1\mu\Omega$ 3. Temperature: $-10^{\circ}C \sim 60^{\circ}C$, $\pm 0.5^{\circ}C$ 4. Power consumption: $\leq 0.8mW$
	Hall Sensor	Current transformer, for use with the battery acquisition module
	Audible and visual alarm ZT-LTE	Strobe sound and light alarm DC12V, through the system linkage sound and light warning
	Hydrogen detector	Measuring range: 0-1000ppm/0-40,000ppm Measuring method: Electrochemical hydrogen Accuracy: 3% F.s Response time: 20s Communication port: RS485
4G SMS Cat ZT-2A-01		Send alarm notification in the form of SMS, the notification content can include machine room, equipment, alarm start, alarm end, alarm trigger value, alarm level; SIM card provided by the customer

Address/ Luma Mountain Industrial Park, 8 He Li Road, Jiangshan City, Quzhou, Zhejiang Province

Website/ www.ztmdc.com

Telephone/ 0571-87353635 400-1187169

National Operation Center/ 9th Floor, Building 4, Xicheng Bosi, 158 Zixuan Road, Xihu District, Hangzhou, Zhejiang Province

National Offices/ Nanjing, Hefei, Jinan, Fuzhou, Nanchang, Changsha, Wuhan, Chengdu, Chongqing, Xi'an, Shenyang, Changchun, Harbin, Nanning, Guiyang, Zhengzhou.