

DC MASTER

DATA CENTER INFRASTRUCTURE MONITORING & MANAGEMENT PLATFORM

DC Master is an infrastructure monitoring and management platform developed and continuously enhanced by Gerchamp. Designed to support stable and efficient data center operations, it focuses on power distribution, HVAC systems, and environmental conditions—playing a critical role in ensuring the reliable performance of data centers.



APPLICATION



Small to Medium-Sized Data Center

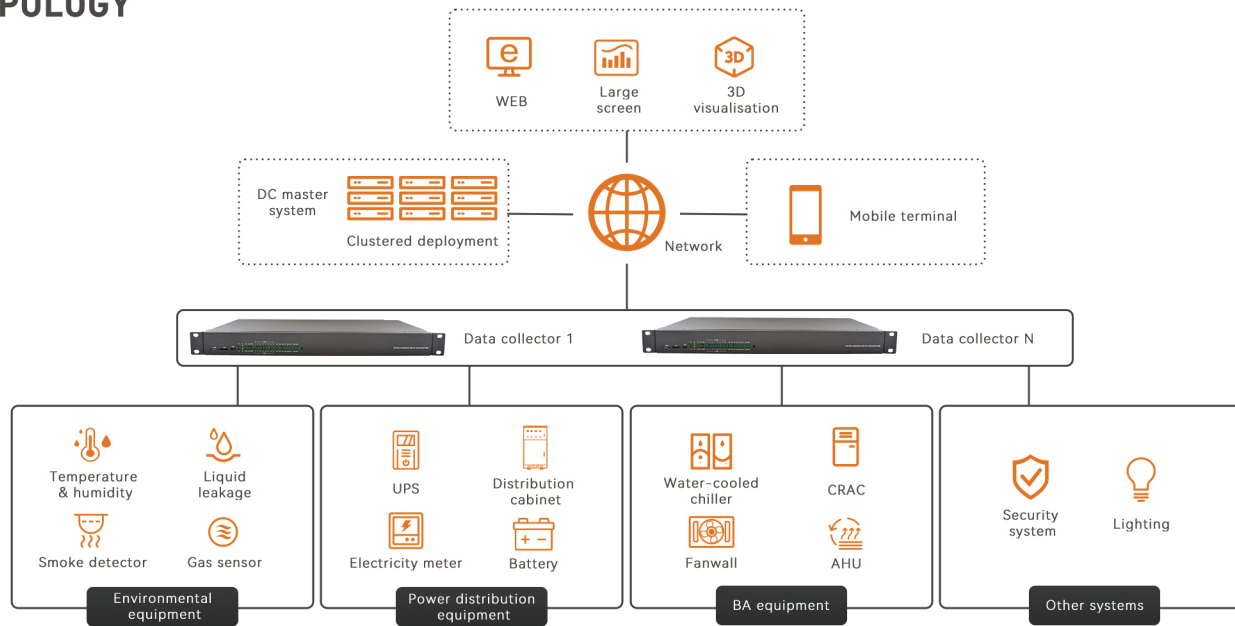


Large-Scale Data Center

FEATURE & BENEFIT

- ▼ **Comprehensive insight**
Full-spectrum monitoring of power, cooling, fire protection, and water systems for complete operational visibility.
- ▼ **High reliability**
Industrial-grade design and proven architecture ensure uninterrupted monitoring and system stability.
- ▼ **Second-level root cause analysis**
Accurate data collection and multi-condition alarm rules enable precise and rapid fault localization.
- ▼ **Visual intelligence**
Intuitive global visualization with rich, interactive dashboards for comprehensive operational awareness.
- ▼ **Robust security**
Multi-layer data protection mechanisms safeguard system operation, data storage, and transmission.
- ▼ **Elastic scalability**
Supports over 5 million data points with seamless, scalable expansion to match evolving business needs.

TOPOLOGY



FUNCTION

▼ Panoramic monitoring

Covers power, HVAC, environment, and security systems. Features web-based low-code configuration, customizable dashboards, topology views, and real-time visualization to support operational decision-making.

▼ Alarm center

Enables custom thresholds, flexible severity levels, and multi-channel notifications (SMS, email). Supports alarm suppression, aggregation, and interlock logic to ensure accurate identification and efficient response.

▼ Energy management

Real-time energy data collection with energy modeling and automated PUE calculations. Provides area/device-level analytics, visualizations, and multidimensional comparisons to support energy optimization.

▼ Reporting & analytics

Built-in standard templates and report engine support on-demand report generation and export. Offers customizable reports with scheduled subscription and delivery for data-driven insights.

▼ System administration

Supports hierarchical organizational structures and fine-grained permission control. Logs user activity, function usage, and configuration changes to meet compliance requirements and enhance audit traceability.

SPECIFICATION

Item	Specification
Deployment mode	Single-node, dual-node, cluster, virtual machine, containerized, cloud-hosted
OS / Database	Openouler/centos; Mysql, TDengine
Management capacity	Supports 5 million data points (~25,000 racks), scalable on demand
Data retention	Default: 1 year (configurable)
Concurrent users	Supports up to 100 concurrent users

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