



2. Integrated Monitoring System for Airfield Electric Power

(1) System Structure

The system employs distributed layer structure including 3 layers of control: Dispatching layer for dispatching center of airport electric power; control layer for monitoring system of substation; device layer for monitoring devices and electric power instruments. The communication network includes the communication between dispatching center and substations, and among substations.

(2) Network Requirements

- ① The communication network between dispatching center and substations employs ring topology to realize double backup system;
- ② The communication network among substations uses dual star topology to realize double backup network for control and device layer.

(3) Product Application

SICOM3000/KIEN6000 Industrial Ethernet switches are used for the communication between dispatching center and substations.

KIEN3016 Industrial Ethernet switches are used for communication network among substations.

(4) Network Diagram

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