Intelligent Power Distribution System

IEC61850-3 Ethernet Switches

Industrial Grade Design, Fit for Power Distribution

- IEC61850-3/IEEE1613 Complied
- Zero Packet Loss for Ethernet Data Switching
- Fanless design, supporting -40~85℃ operating temperature
- 15ms Network Redundant Recovery Time

≫ Commanications Requirements

- Openness and Regulated
  - ✍ Interoperability among multiple protocols from multiple vendors to maximize the network resources
- Integrity and Reliability
  - ✍ To ensure fast, reliable data transfer services with integrated management and control
- Advancement
  - ✍ The hardware, software and protocols are compliant with international standards with long term planning in design
- Effective Management and Safety
  - ✍ Complete management of the network
  - ✍ Support VLAN, QoS and other important functions
  - ✍ Layered safety arrangement for taking care of different safety concerns
- High speed Ethernet technology required
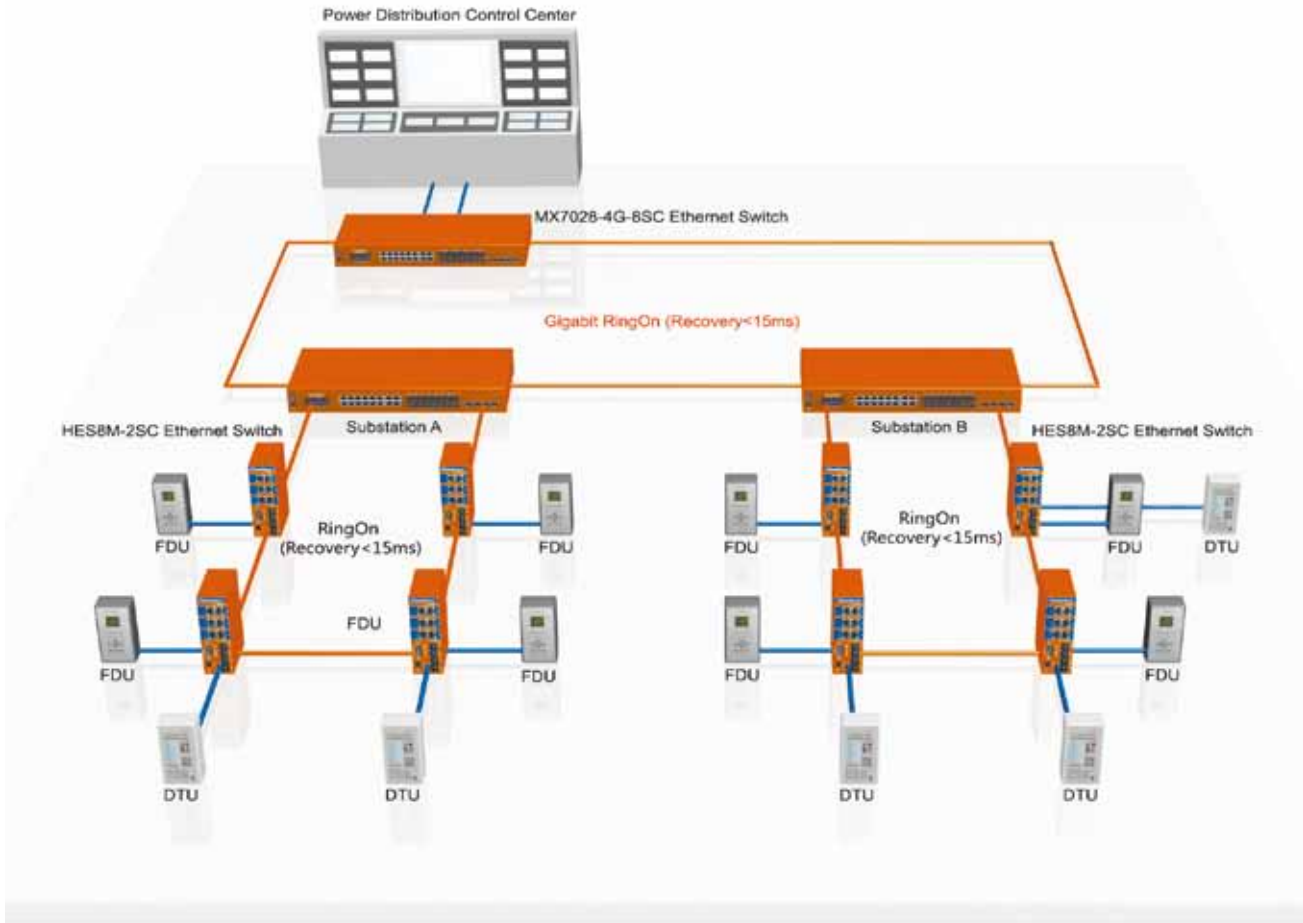 - ✍ Allows for further expansion of the existing networks

≫ Henrich Power Distribution Case Study

Our MX7028-4G gigabit layer 3 switch, one network management software and one network control platform are installed in the control center. MX7028-4G-8SC is used to aggregate the network equipment in the control center and connect the equipment from multiple substations. It also transfers these data to other designated locations. The network control platform is to configure the network and monitor the parameters of the running network.

Similarly, one MX7028-4G-8SC gigabit layer 3 switch, one network management software and one network control platform are installed in the substation. MX7028-4G-8SC is used to aggregate the network equipment in the substation and contact the requirement from multiple power distribution and monitoring center. It also transfers these data to other designated locations. HES8M-2SC is used to aggregate and transfer the frontend FTU and DTU data. The network control platform is to configure the network and monitor the parameters of the running network.

Case Topology

Recommended Products

MX7028 Series
Layer 3 All Gigabit Industrial Ethernet Switches

- Layer 3 switching, supporting switches static
  Routing and RIP v1/v2
- Supporting RingOn™ and RingOpen™ Network
  recovery redundancy with less than 15ms recovery
  time
- Fanless design supporting -40~85℃
  operating temperature

MX6000 Series
IEC61850-3 Industrial Ethernet Switches

- IEC61850-3/1613 Certified
- Supporting RingOn™ and RingOpen™ Network
  recovery redundancy with less than 15ms recovery
  time
- Embedded diagnosing ability to check and
  remove network errors
- Relay and email output to alarm