

Power Distribution Automation



Background

Power distribution automation is changing the grid. Incidents that once caused weeks of rolling blackouts can now be controlled with a few hours of brown-outs. Theft and network outages are instantly reported by smart telemetry systems and utilities have full real-time control of every aspect of their distribution network.

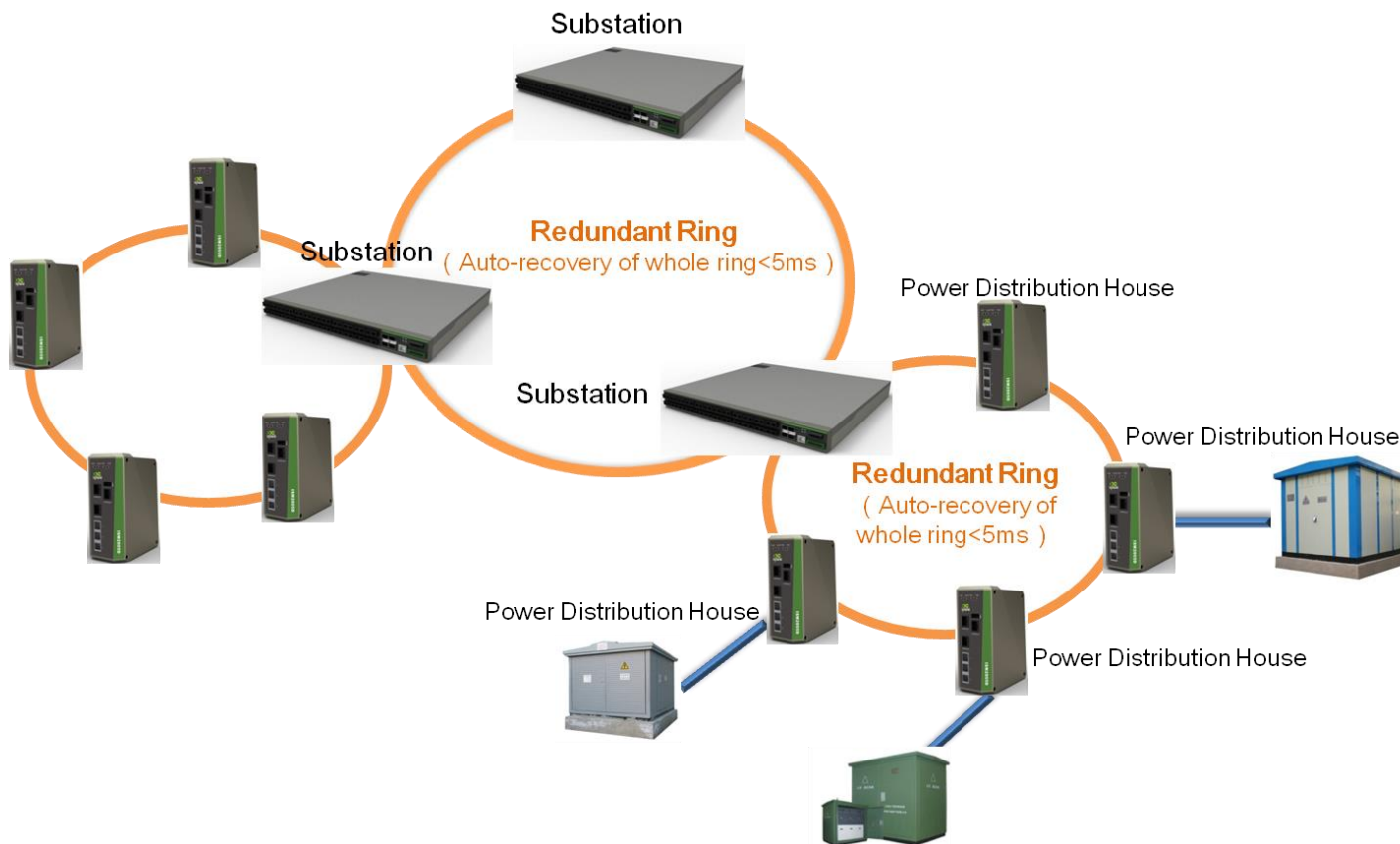
Reliable communications systems are key to the success of the smart-grid. Real-time telemetry, alarms and reclosers all depend on on the communications network. It is nervous system of the smart-grid.

InHand Networks meets the demands of smart-grid communications:

- Stability: High uptime for critical infrastructure
- Reliability: Designed for longlife cycles in harsh environments
- Redundancy: Double or even triple backup network links
- Low latency: Real-time transmissions
- Large networks: Management for thousands of communication nodes and end devices

Industrial Ethernet has become the dominant form of communications by meeting these needs. It is a common physical interface proven over many years of usage. It is reliable and can be combined with fiber-optic cable to provide resistance to electromagnetic interference.

Solutions



Network Topology

Related Products

ISM2010D managed DIN-Rail mounted industrial Ethernet Switch, which supports serial port access

ISM3028U modular managed rack mounting industrial Ethernet Switch

Why InHand?

Reliable in harsh conditions

- Industry's highest level electromagnetic compatibility (EMC)
- Operating temperature: -40~85 ° C
- Seamless aluminum alloy housing, IP40 grade protection, and optional PCB protective coating

Simple to Integrate

- InHand's industrial grade switches quickly deploy fast redundant fiber rings. Based on international standard protocol ITU-T G.8032v2, InSwitch are highly compatible and can integrate in existing topologies seamlessly. Fast auto-recovery function enables a recovery time of whole ring is less than 50 ms.
- Low power consumption design for usage under battery power.
- Flexible hot-pluggable port configuration to meet customers' diversified needs.
- Functions like automatic topology discovery and batch configuration make engineering implementation and maintenance works easier and simpler.