



Introduction

Power Distribution Automation is an important part of today's Smart Grid. Integration and interoperability are essential for grid operational efficiency and system reliability. Smart Grid technologies around the world are helping to reduce power outages & identify the root causes of blackouts and brownouts; improving restoration times and cutting operational costs.

System Requirements

- A wide range of operating temperatures built to withstand water & dust ingress while providing increased EMC/EMI protection
- A complete system of Layer 2 and Layer 3 Industrial Ethernet Network devices
- Fast network recovery linked to device failure and fault isolation
- Cyber Security protection
- Serial connectivity for legacy devices
- Easy network expansion without disconnecting existing network devices
- Integrated network management software for quick and efficient maintenance

Why Kyland

- A complete offering of industrial network solutions including Layer 2 & Layer 3 switches fully integrated with Gateway and FTU options
- DRP with fast recovery times within 20ms for redundancy. VLAN based DRP support to construct multiple redundant networks with variable uplinks
- DHP protocol with flexible redundant chain schemes for network extension
- Network security features: SSH, SSL, SNMP v3, IEEE802.3x, TACAS+, Radius and ACL
- Ethernet ports and serial ports RS232/RS485, 110VDC & 220VAC power options

- KYVISION® network management software to manage large networks for easy troubleshooting and visualization
- Industrial operating temperatures (-40°C to +85°C), IP40, conformal coating available – EMC level 4
- DG-P8/16 supports multiple protocol conversion (IEC61850/DNP, Modbus 3.0, IEC60870-5-101/104)
- DG-P8/16 integrated with large storage capacity
- DG-D60 suitable for all types of pole mounted breakers and ring network topologies
- DG-D60 support for IEC60870-5-101 and DNP3.0
- DG-D60 remotely maintained and configured by GPRS fiber optic and wireless communication

Recommended Products



SICOM3028GPT

Layer 2/3 modular switch up to 28 gigabit ports or 4G+24 fiber or copper ports, 1U
Support OSPF/RIP/RRP
Security features supported
EMC level 4, IP40



SICOM3024

Layer 2 24+4G ports managed rack mounted switch
IEC61850-3 and IEEE1613
Support port based/VLAN based DRP, DHP



SICOM3216

Layer 2 16+2G ports managed DIN-Rail switch IEC61850-3
Support port based/VLAN based DRP, DHP



SICOM3009A

Layer 2 9 ports managed DIN-Rail switch
As low as 5.5 watts full load power consumption Support port based/VLAN based DRP, DHP
EMC level 4, IP40 protection class, one-key recovery

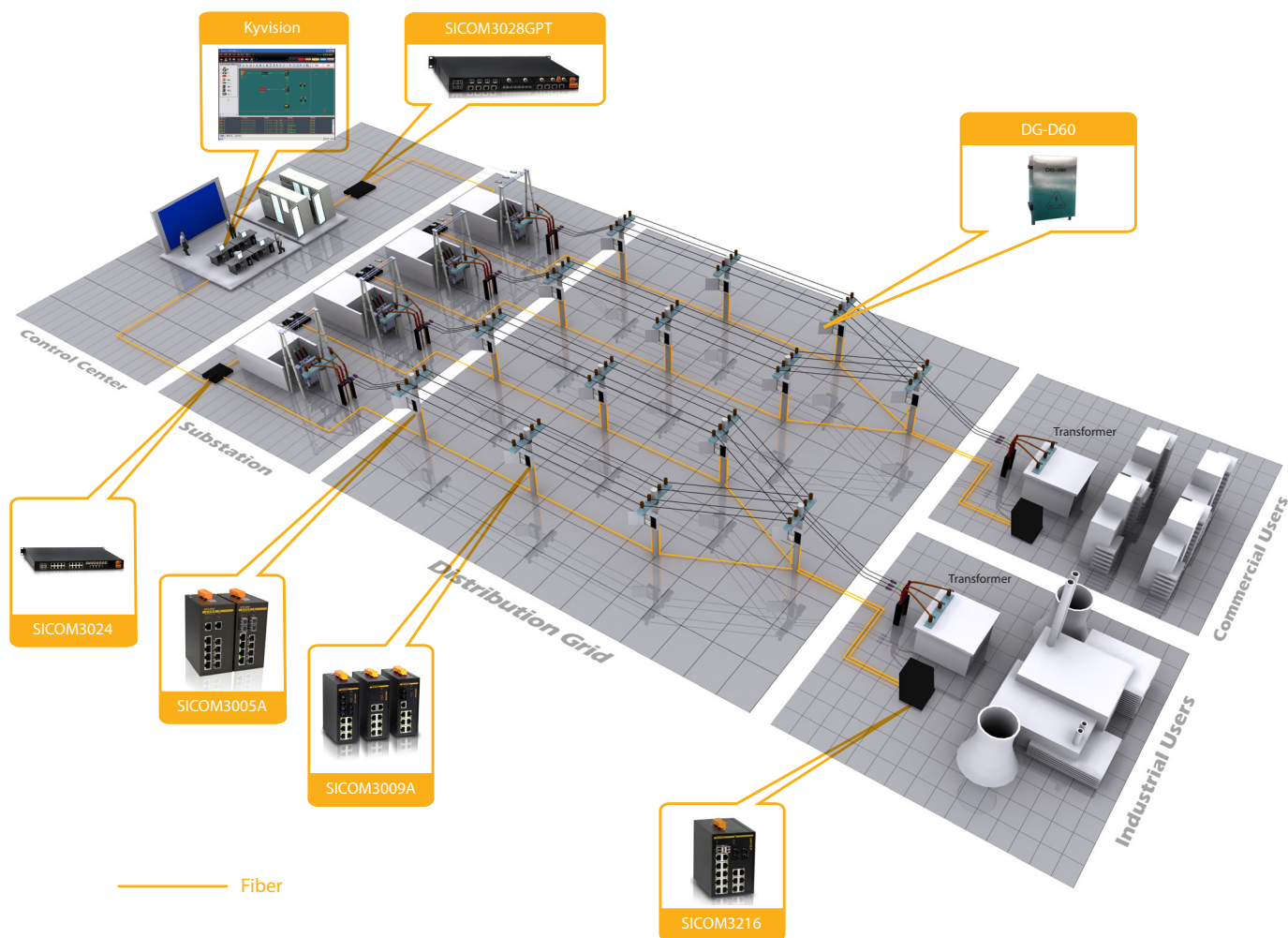


SICOM3005A

Layer 2 6 ports managed Din-Rail Serial Device Server Integrated Ethernet Switch
Support port based/VLAN based DRP, DHP
Integrated Ethernet switch with 4 RS232/RS422/RS485 ports
EMC level 4, IP40 protection class

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Power Distribution Automation Solutions



DG-P8/16

Industrial grade communication protocol converter
IEC61850-3, IEEE1613
Supports IEEE1588 time sync
Supports IIRIG-B, PPX, NTP time sync, generates IIRIG-B output signal automatically
Supports embedded Linux, VxWorks, QNX, MontaVista
Different data communication paths for various communication protocols
Supports communication protocols
DNP3.0/DNP3.0 over LAN(server & client), Modbus(RTU/ASCII)/Modbus over TCP/IP(server&client), ABB® Spabus, AREVA Courier, GE Multilin, SEL® Fast-meter, IEC60870-5-101/102/103/104 (server & client), CDT(server & client), SC1801, ABB/Siemens/Mitsubishi/Toshiba PLC



DG-D60

Suitable for all types of pole-mounted breakers, load switches, isolating breakers and ring-network interconnection switch applications
Supports IEC61870-5-101/104 and DNP3.0. Local remote control operations with D60-RC Engineer
Configuration with FTU and D60-WPE
Intelligent DC power supplies dual circuits and solar, battery activation, remote measurement and life span monitoring