



DF1725IED Monitoring Solution

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System overview

DF1725IED follows the IEC international standard, adopting advanced power monitoring technology. The system has good real-time performance, reliability, openness, suitable for the comprehensive and real-time monitoring and control for the company which works on the primary and secondary equipment electricity regarding to the power plants, substations, and distribution networks.

DF1725IED module has a variety of functional plug-ins, adaptation to a variety of AC and DC power supply, and can achieve the acquisition of a variety of signals. The four-remote function with telemetry, digital input, digital output, and remote adjustment, the module also has circuit breaker synchronization check, deadline control block, and Ethernet communication function. It supports the programmable logic control (PLC) function, and can realize the operation latch of a single the operation interlock scheme between different electrical units.

The module has the advanced distribution automation processing function, and can cover the feeder, the switch station, the open and close device, the cable the distribution room, the low voltage substation and other distribution automation domain, realizing the distribution automation monitoring, Automatic Fault Identification processing (DA).

DF1725IED uses high-performance embedded 32-bit processor, CPLD and real-time multitasking operating system with flexible configuration. It has rich communication supporting many international standard protocols, including 101/104/103/DNP3/MODBUS/IEC61850, and can connect and communicate with various intelligent communication interfaces conform to IEEE and IEC standards.

Technical features

- Using industrial chip, electrical isolation and electromagnetic shielding design conforming to international standard. The hardware system of the device has excellent anti-jamming ability and reliability.
- With a high performance embedded 32-bit processor, the system has powerful processing capability.
- The complex programmable logic device (CPLD) technology is used to simplify the design of circuit board and improve the product stability.
- The 16bit high-speed A / D converter and synchronous sampling technology are used to compensate the variation and phase difference of the transformer voltage measurement.
- DF1725IED configuration has dual Ethernet communication interface, and networking is very flexible.
- Flexible module configuration: a variety of I/O and analog acquisition plug-ins, according to the number of system interfaces the configuration can be arbitrary.
- DF1725IED can communicate with each other, supporting the PLC function with IEC61131-3 standard, realizing the operation latch according to the electrical operation interlock scheme between different electrical units.
- Comprehensive self-test and error alarm function, ensuring that the background monitoring system can get real-time status of the module. The module has self-diagnosis function.
- Advanced manufacturing technology: adopting surface mount technology, multi-layer plate design, high anti-interference ability.
- High precision internal clock.
- Key data storage function during power-off.
- Supporting dual-processor, dual-power configuration.
- Exquisite structure design, beautiful assembly screen.
- IEC61000-4 IV-level anti-jamming ability, can be used in harsh conditions.

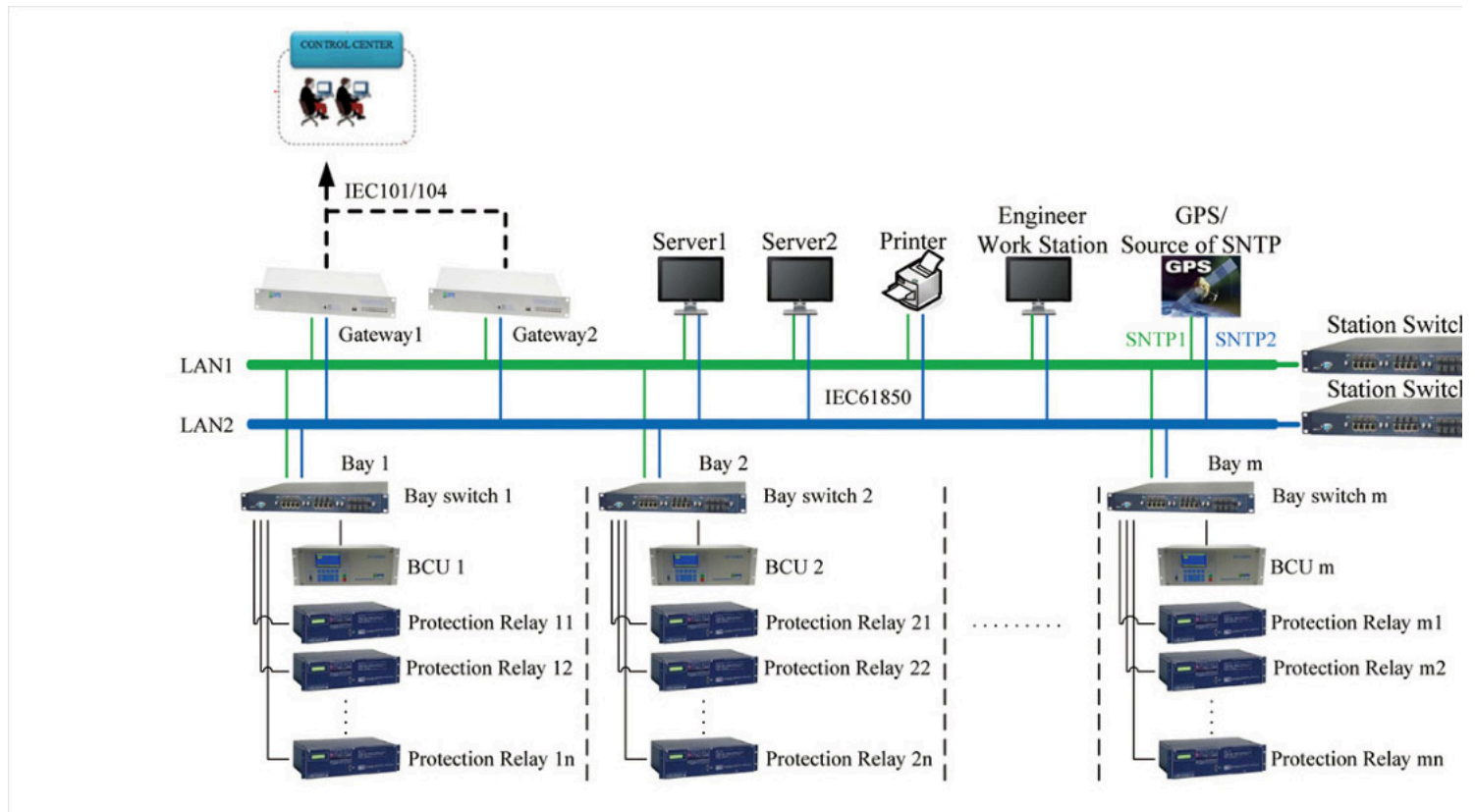


- operating ambient temperature: $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$.
- A variety of LED indicators to facilitate maintenance personnel to overhaul and debug.

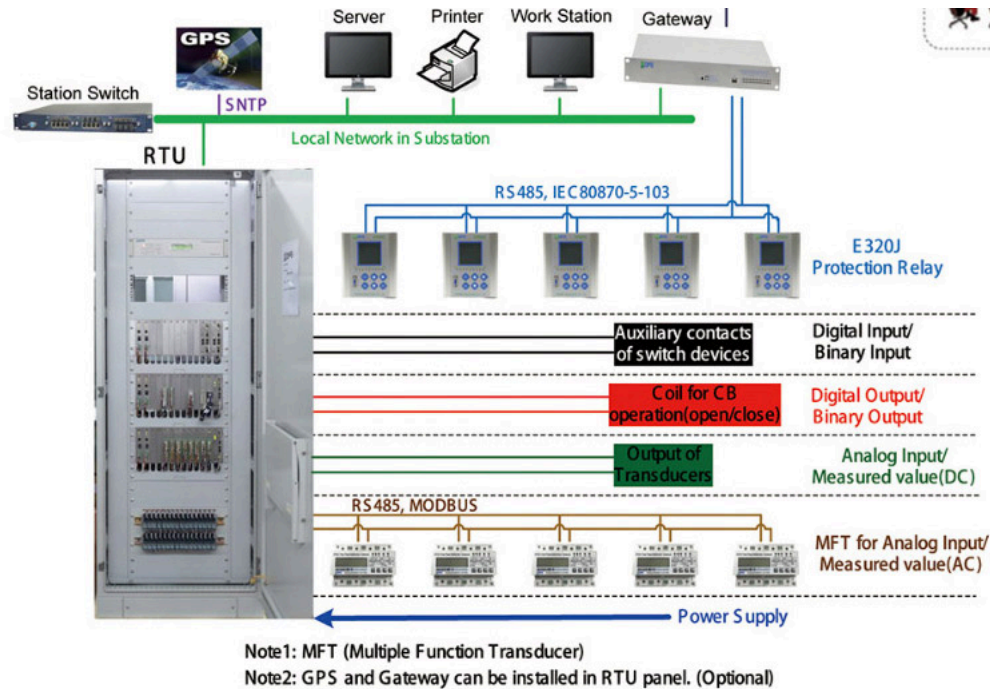
Product application

DF1725IED module can be used as RTU, FRTU and BCU in power transmission, distribution and power plant monitoring system.

1. SAS (Substation Automation System) typical solution (BCU)



2. Substation solution (RTU)

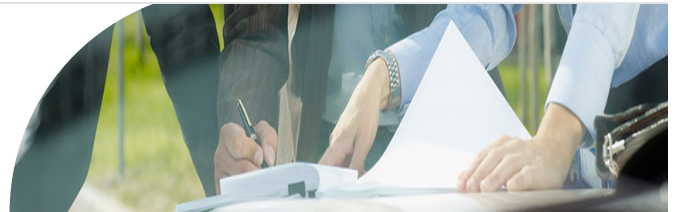

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3. Distribution network solution (FRTU)

DF1725IED can be used as a FRTU to monitor and control RMU and load breaker switch or circuit breaker on the pole in the distribution network, and it can determine many kinds of faults, event storage and reporting to the master station. DF508 redundant power supply system can fully ensure that the equipment operate in the case of external power interruption.


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