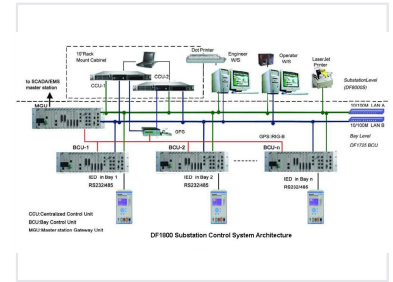


# Mini SCADA System with Modular Design

This mini SCADA system features a modular and distributed design for flexible configuration. Software modules facilitate distributed functionality, easy troubleshooting, and expandability.



## System Overview

### Modular Mini SCADA System

This Mini SCADA system is designed with a modular architecture to provide comprehensive substation control and monitoring. It supports critical functions including data acquisition, processing, human-machine interface (HMI), and remote control operation. Built for reliability, the system features advanced capabilities like event recording, alarm management, and system self-diagnosis to ensure operational integrity.

### Core Functions

- Data Acquisition
- Data Processing and Computing
- Human Machine Interface (HMI)
- Remote Control Operation
- Event Recording
- Alarm Function
- Report Management
- User Authority Function
- Database Management and Maintenance
- System Self Diagnose Function
- Protection Relay Management
- Fault Recording Data Processing and Analyzing
- Interlocking and Operating Ticket
- VQC

## Technical Architecture

### System Components

Component	Description
MGU	Master station Gateway Unit for SCADA/EMS connectivity
CCU	Centralized Control Unit (19" Rack Mount Cabinet)
BCU	Bay Control Unit
IED	Intelligent Electronic Device
Workstations	Engineer and Operator Workstations

**Connectivity & Synchronization** 10/100M LAN (Redundant A/B), RS232, RS485, GPS/IRIG-B Synchronization

**Form Factor** 19-inch Rack Mount Cabinet