

# Traction Substation Integrated Automation and Safety Monitoring System

This system provides comprehensive management and monitoring of traction substations. It integrates automation, control, and safety features for reliable operation.



## System Overview

### Integrated Traction Substation Management

The TA21 is a comprehensive integrated automation and safety monitoring system designed for traction substations. It utilizes a hierarchical, distributed network architecture to seamlessly combine protection, measurement, control, and video-based safety monitoring. This solution is engineered to deliver reliable performance for various traction environments, including zoning, open, and close applications.

## Technical Specifications

### Processor Architecture

Embedded 32-bit microcontroller

## System Architecture

### Key Components

- Protection, measurement, and control unit
- Local monitoring unit
- Remote communication unit
- Safety (video) monitoring unit

## Safety & Features

### Safety Capabilities

Real-time monitoring, Disaster alarm, Image monitoring, Automated control

## Application

### Suitability

Suitable for various kinds of traction substations, including zoning, open, and close applications.