AGIL®

SMART DIGITAL JUNCTION SUITE

ST Engineering

AGIL® Smart Digital Junction Suite

Traffic congestion remains a major challenge for cities worldwide, impacting lives, economy and the environment. To efficiently manage the increasing volume and complexity of urban traffic, it is crucial to enhance the adaptability and responsiveness of traffic signal controls.

MODERNISING TRAFFIC JUNCTIONS

AGIL Smart Digital Junction Suite is an AI-driven solution that optimises traffic signal timings, improves operational efficiency, and ensures a smoother journey for all road users. It empowers traffic authorities to better manage the intricacies of urban traffic. Discover the key features of our solution suite.

AI-driven Algorithm

Learns and optimises traffic timings in real-time, overcoming communication network disruptions due to its distributed architecture.

Controller Agnostic

Tested and compatible with international standard protocols.

Intuitive User Interface (UI)

Management and control platform that leverages user-friendly UI to simplify junction operations.

Sensor Agnostic

Compatible with industry standard sensors for traffic control and other operational insights.

Future-proof

Supports Vehicle-to-Everything (V2X) communications, essential for the safe and efficient operation of autonomous vehicles and future mobility needs.

1 Central Management System
Integrated platform for efficient junction operations

2 Distributed AI-driven Algorithm
Optimises traffic signal timings in real time

2 Traffic Controller Agnostic
Compatible with various international standard protocols

AGIL Smart Digital Junction Suite comprises

1 Central Management System
Provides both cloud-based and on-premises options. This feature-rich, integrated platform provides a full array of functionalities, allowing users to configure, command and monitor all traffic junctions within a city's road network. Its intuitive user interface enhances accessibility to enable efficient operations.

2 Traffic Controller with AI Algorithm
Leverages AI and data analytics to optimise traffic signal timings across the entire network in real time.

Central Management System
Feature-rich | Configurable | Efficient

Intuitive Junction Configuration

- Simplifies setup from individual junctions to a full network of junctions
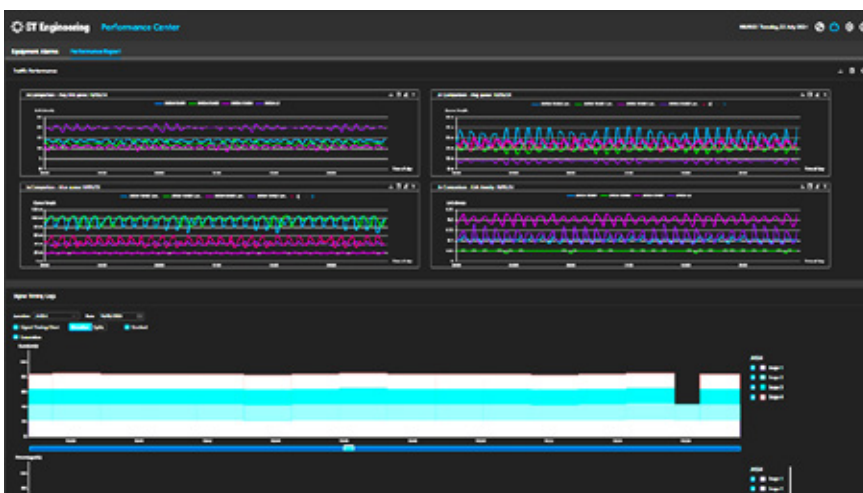- Reduces labour-intensive data entry

Real-time Monitoring

- Manages control algorithm and signal timings
- Monitors traffic conditions in real time at network and junction levels

Performance Analysis

- Assesses network junction performance through traffic KPI analysis
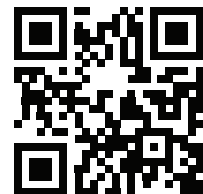- Manages and addresses equipment faults promptly with real-time alarms

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