Adaptive Traffic Control System

Traffic management strategy in which traffic signal timing changes or adapts based on actual traffic demand

Components

Vehicle detector

Master Controller

Traffic Lamps

Count down Timer

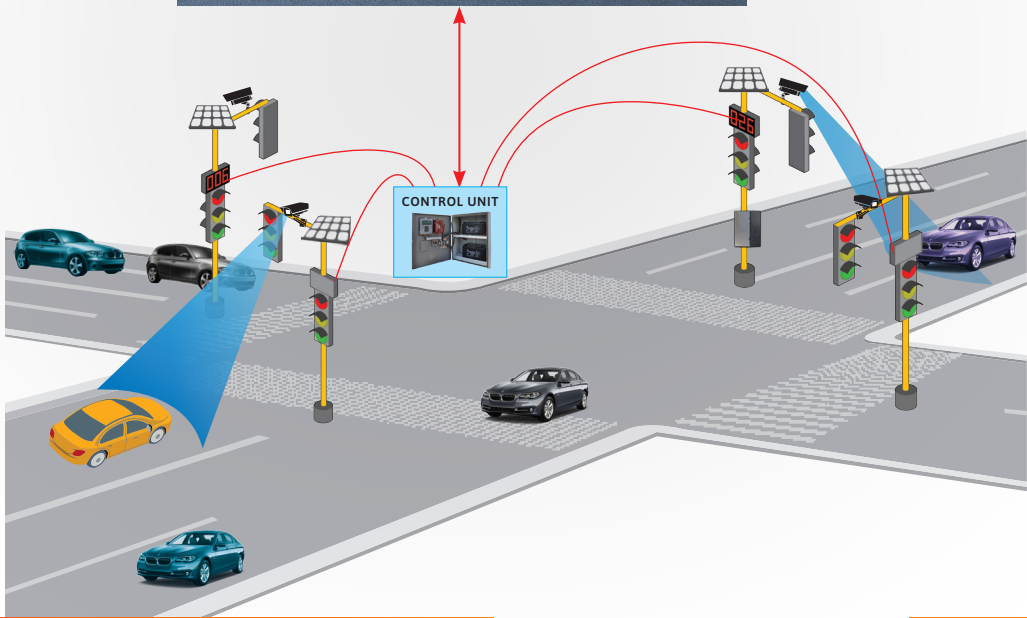
Pedestrian Lamp

Features

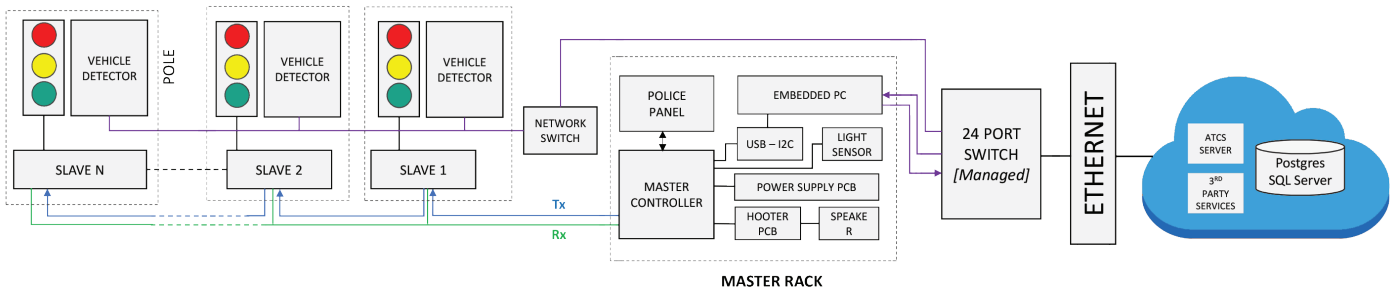
- Balance phase utilization – fair distribution of green
- Minimize arrivals on red – improve progressed flow
- Minimize queue-time density – serve the most vehicle waiting the longest
- Minimize combination of stops and delay – delay offset optimization
- Pedestrians, emergency vehicles, transit vehicles interface with adjacent systems operations and other realities

Benefits

- Average travel speed increases
- Reduction in average delay
- Reduction in fuel consumption (better healthy air index)
- Time saving (increases city productivity)
- Drop in accident rate (better safety index)

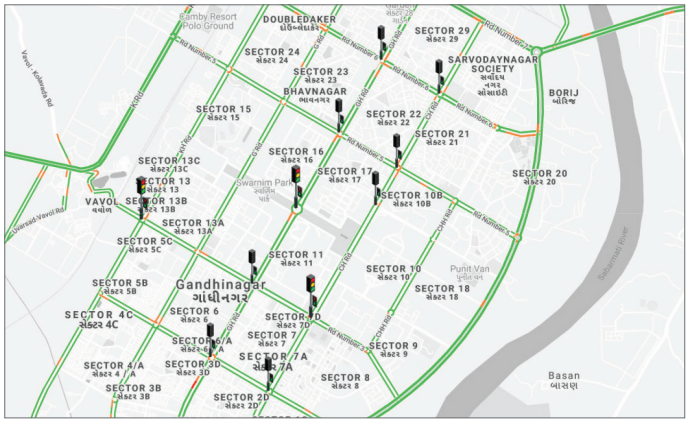


Architecture

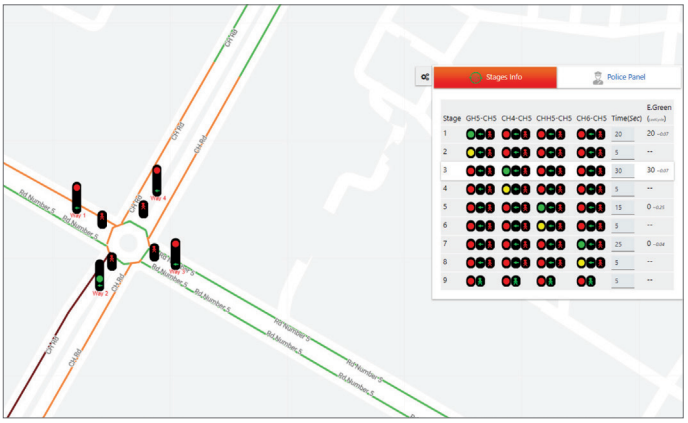


Command Control Software

Network Screen



Junction Live View



Junction Configuration

KPI Reports

Installations (Gandhinagar, Gujarat)

Efftronics Systems Pvt. Ltd.
ISO 9001 : 2015
20000873 QM15

Approved by
RDSO
Govt. of INDIA
Ministry of Railways

ISO 27001 : 2013

'R & D'
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DSIR
Govt. of INDIA

CRISIL RESEARCH
Rating: BB

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